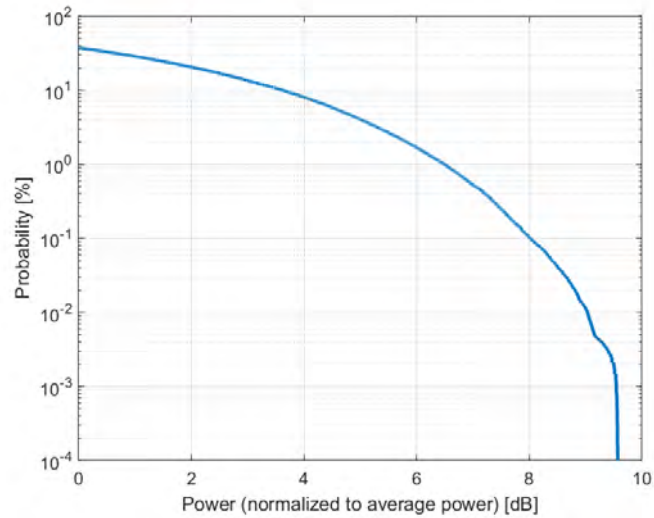
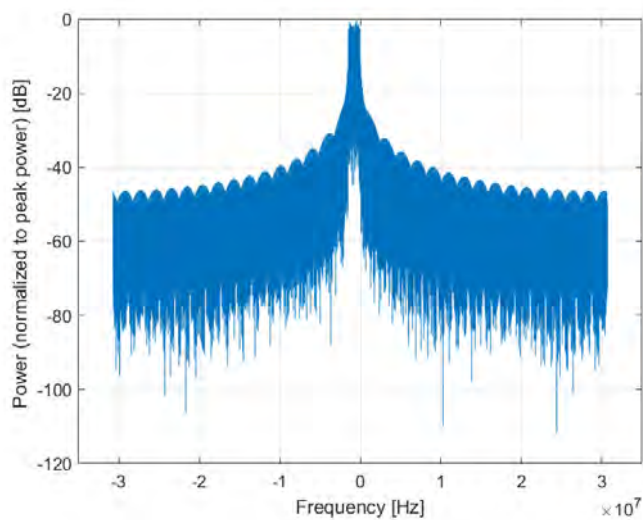
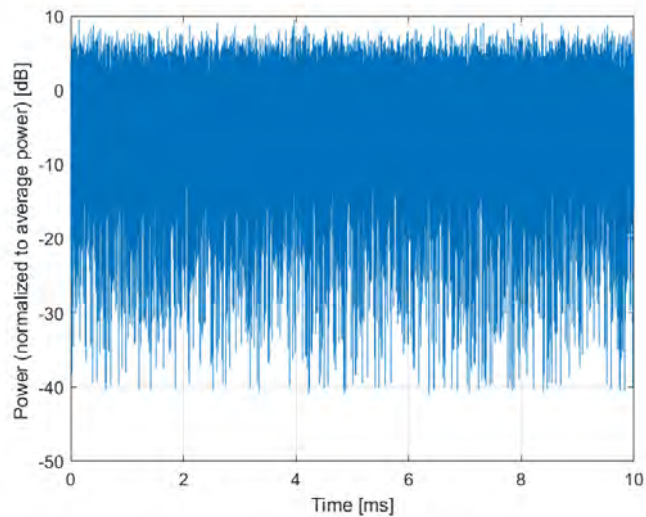




Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
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Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **5G NR (CP-OFDM, 100% RB, 50 MHz, 16QAM, 120 kHz)**

Group: 5G NR FR2 TDD
UID: 10890-AAE

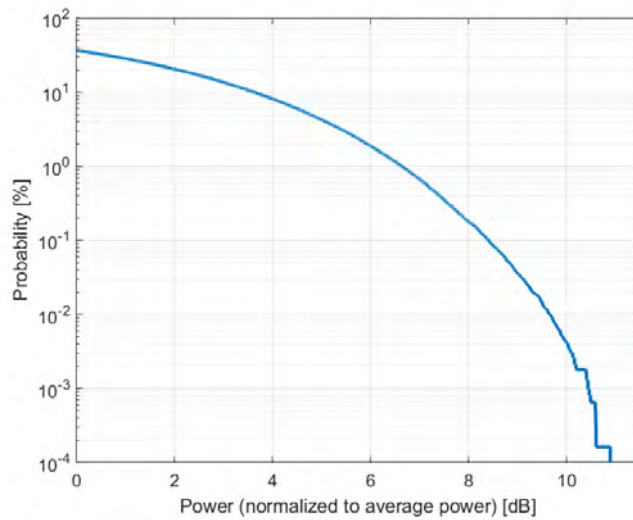
PAR: ¹ **8.40 dB**
MIF: ² **-23.93 dB**

Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: 16QAM
Frequency Band: Band n257 (26500 - 29500 MHz)
Band n258 (24200 - 27500 MHz)
Band n260 (37000 - 40000 MHz)
Band n261 (27500 - 28350 MHz)
Band n262 (47200 - 48200 MHz)
Validation band (0.0 - 6000.0 MHz)

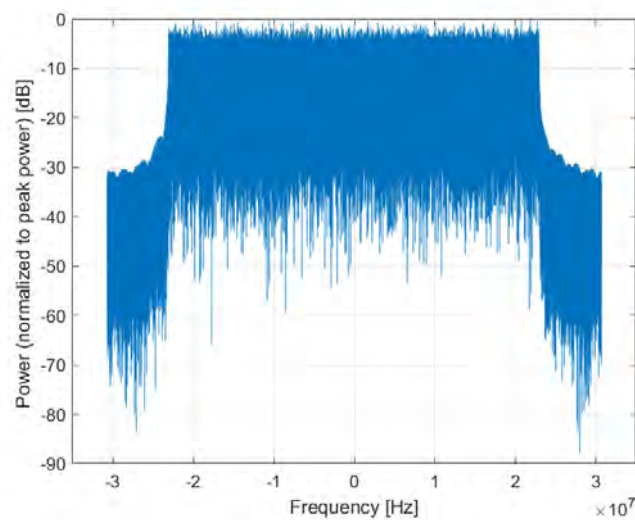
Detailed Specification: Multiplexing Scheme: CP-OFDM
Modulation Scheme: 16QAM
Subcarrier Spacing: 120 kHz
Number RBs: 32
Slot Format Index: 1
Data Type: PN9

Bandwidth: 50.0 MHz
Integration Time: 10.0 ms

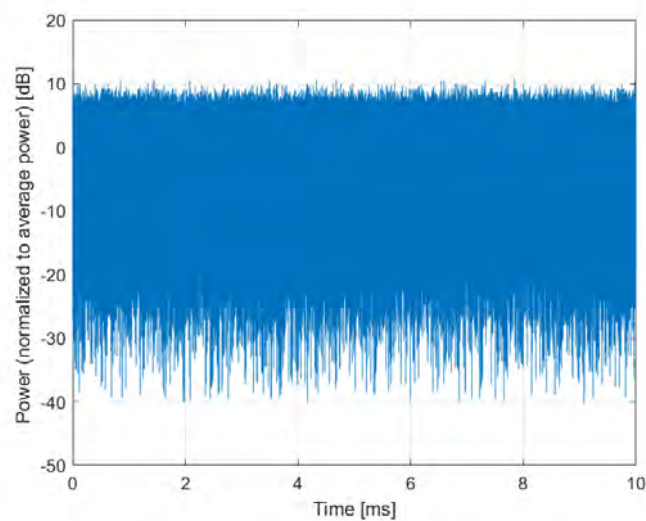
¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain

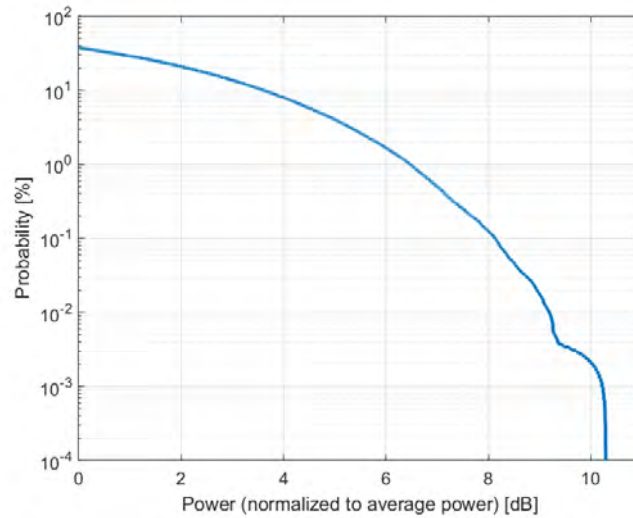


Time Domain

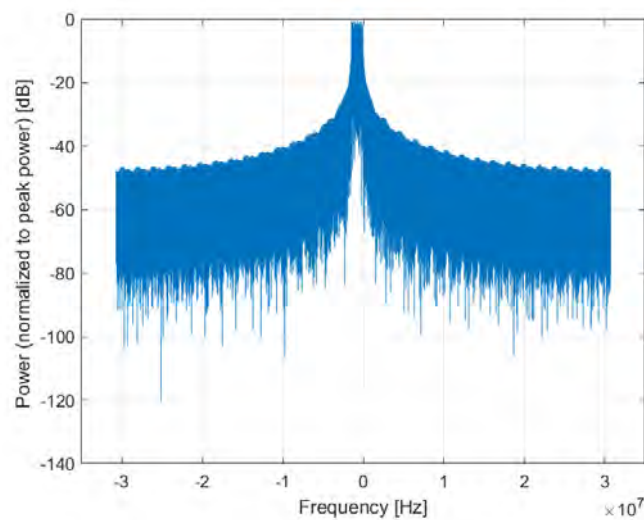
**Calibration Laboratory of
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Zeughausstrasse 43, 8004 Zurich, Switzerland

Name:	5G NR (CP-OFDM, 1 RB, 50 MHz, 64QAM, 120 kHz)
Group:	5G NR FR2 TDD
UID:	10891-AAE
PAR: ¹	8.13 dB
MIF: ²	-17.02 dB
Standard Reference:	SPEAG
Category:	Random amplitude modulation
Modulation:	64QAM
Frequency Band:	Band n257 (26500 - 29500 MHz) Band n258 (24200 - 27500 MHz) Band n260 (37000 - 40000 MHz) Band n261 (27500 - 28350 MHz) Band n262 (47200 - 48200 MHz) Validation band (0.0 - 6000.0 MHz)
Detailed Specification:	Multiplexing Scheme: CP-OFDM Modulation Scheme: 64QAM Subcarrier Spacing: 120 kHz Number RBs: 1 Slot Format Index: 1 Data Type: PN9
Bandwidth:	50.0 MHz
Integration Time:	10.0 ms

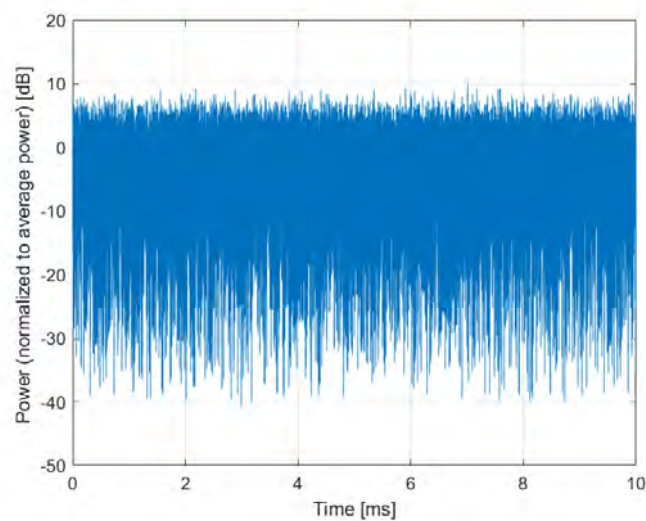
¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

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Name: **5G NR (CP-OFDM, 100% RB, 50 MHz, 64QAM, 120 kHz)**

Group: 5G NR FR2 TDD
UID: 10892-AAE

PAR: ¹ **8.41 dB**
MIF: ² **-23.75 dB**

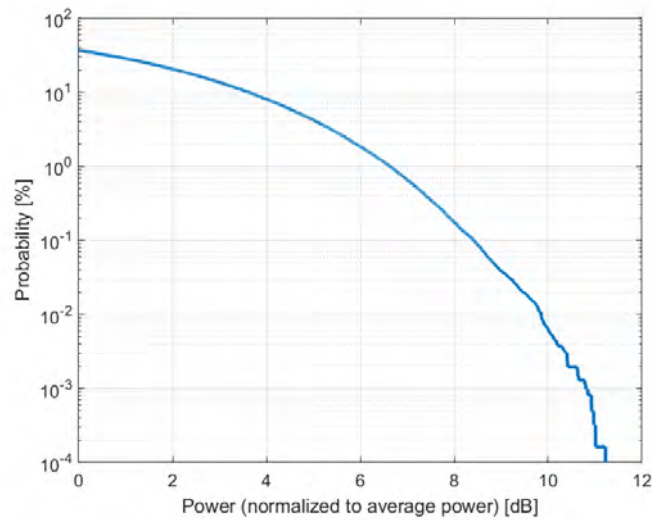
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: 64QAM
Frequency Band: Band n257 (26500 - 29500 MHz)
Band n258 (24200 - 27500 MHz)
Band n260 (37000 - 40000 MHz)
Band n261 (27500 - 28350 MHz)
Band n262 (47200 - 48200 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Multiplexing Scheme: CP-OFDM
Modulation Scheme: 64QAM
Subcarrier Spacing: 120 kHz
Number RBs: 32
Slot Format Index: 1
Data Type: PN9

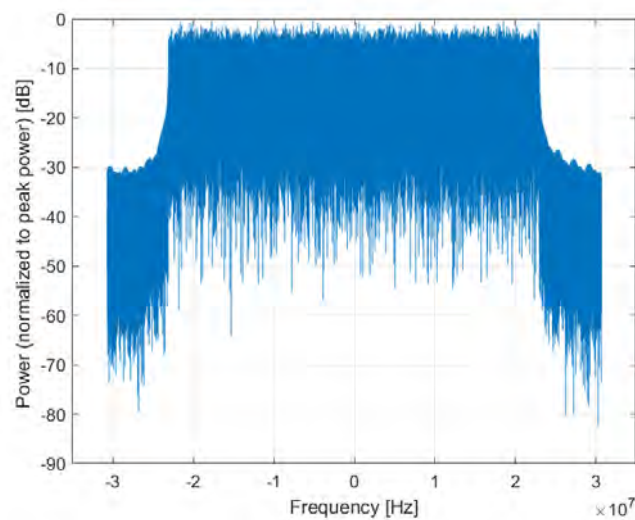
Bandwidth: 50.0 MHz
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

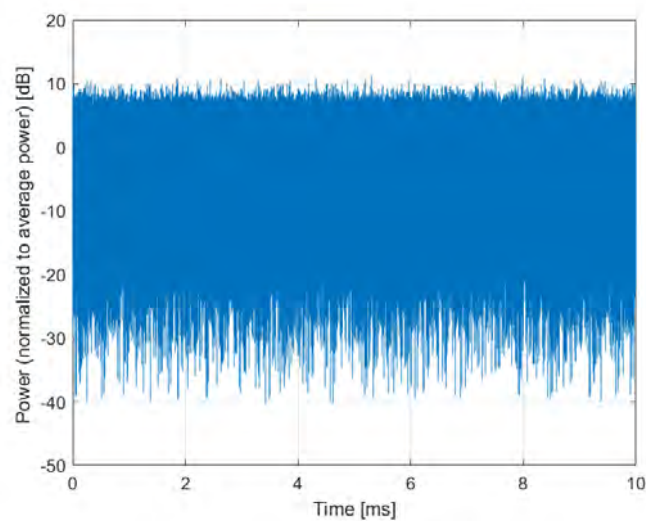
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain

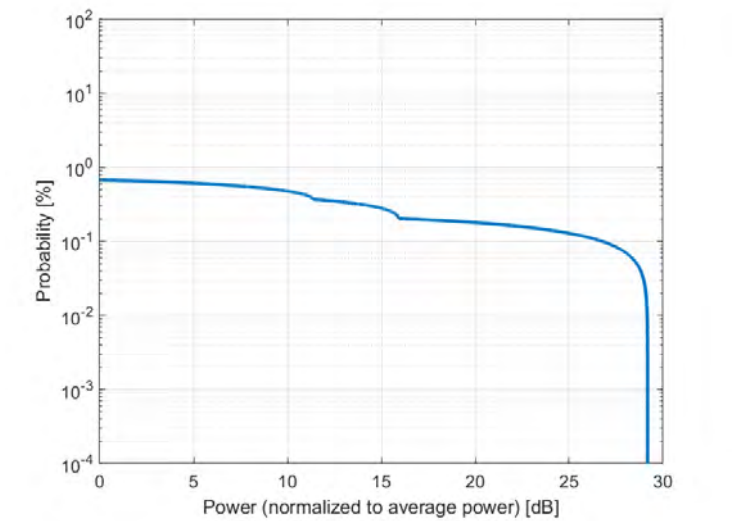


Time Domain

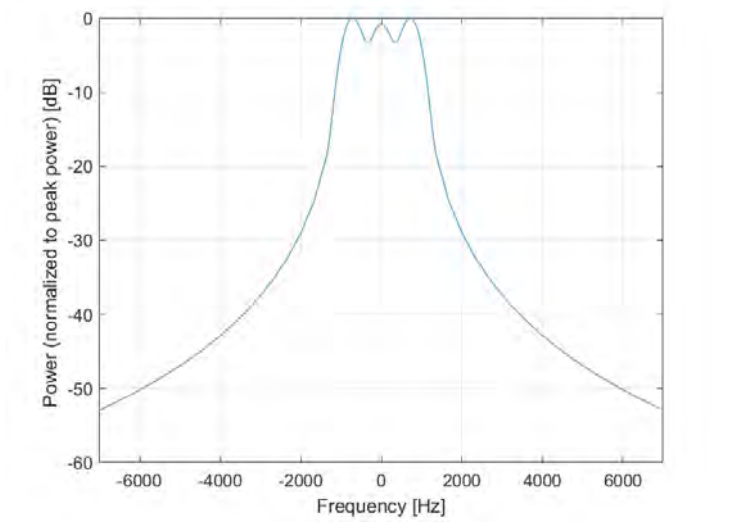
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Name:	MITS (3pi Sinc, 400ms, 3ms)
Group:	MRI
UID:	10893-AAB
PAR: ¹	26.73 dB
MIF: ²	19.99 dB
Standard Reference:	SPEAG
Category:	Periodic pulsed modulation
Modulation:	AM
Frequency Band:	MRI 1.5T (59.0 - 69.0 MHz) MRI 3T (123.0 - 133.0 MHz) Validation band (0.0 - 6000.0 MHz)
Detailed Specification:	Calibration Sequence for Medical Implant Test System (MITS) Pulse Shape: Sinc +/- 3 Pi Repetition Rate: 2.5 Hz Duty Cycle: 0.75%
Bandwidth:	0.0 MHz
Integration Time:	400.0 ms

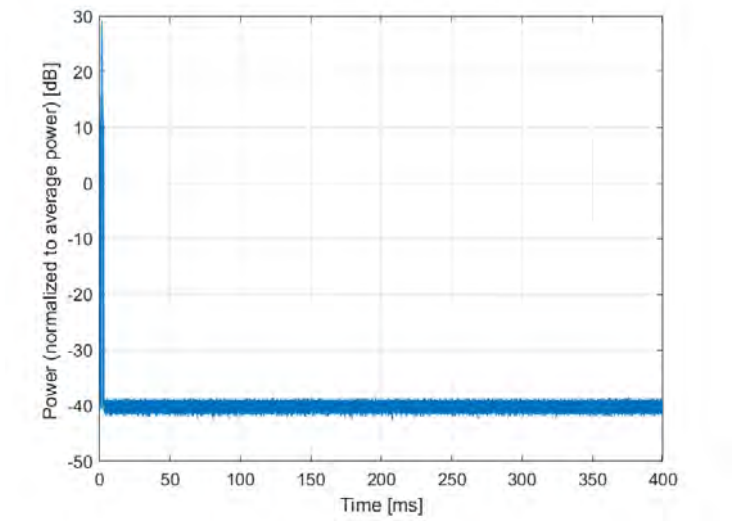
¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



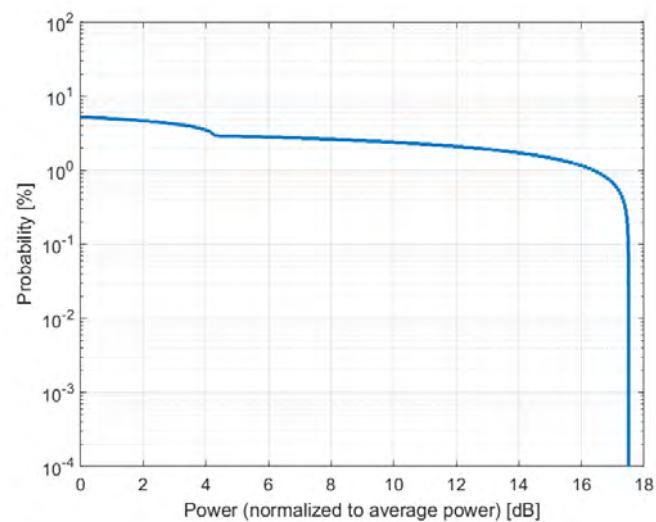
Time Domain

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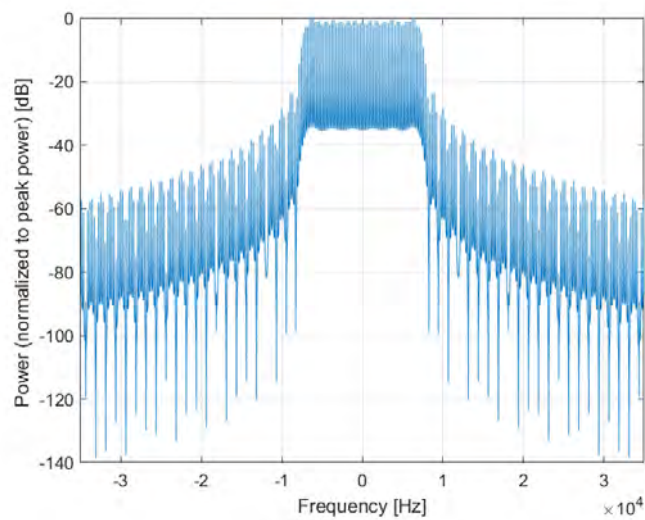
Name:	MITS (6pi Sinc, 3.69ms, 0.8ms)
Group:	MRI
UID:	10894-AAA
PAR: ¹	17.50 dB
MIF: ²	6.16 dB
Standard Reference:	SPEAG
Category:	Periodic pulsed modulation
Modulation:	AM
Frequency Band:	MRI 1.5T (59.0 - 69.0 MHz) MRI 3T (123.0 - 133.0 MHz) Validation band (0.0 - 6000.0 MHz)
Detailed Specification:	Calibration Sequence for Medical Implant Test System (MITS) Pulse Shape: Sinc +/- 6 Pi Repetition Rate: 271 Hz Duty Cycle: 21.7%
Bandwidth:	0.1 MHz
Integration Time:	3.7 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

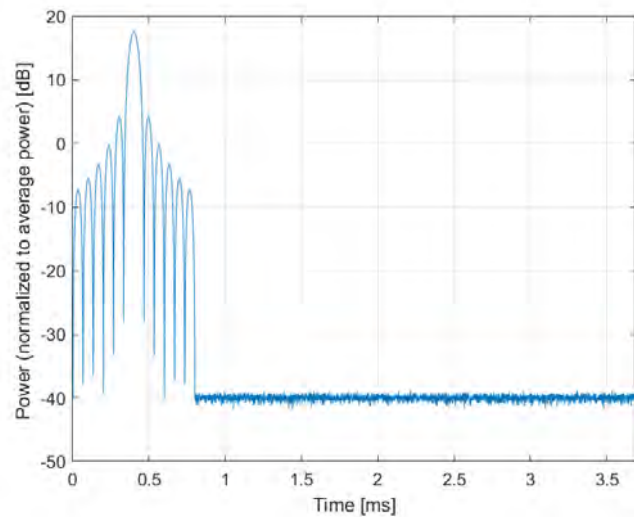
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



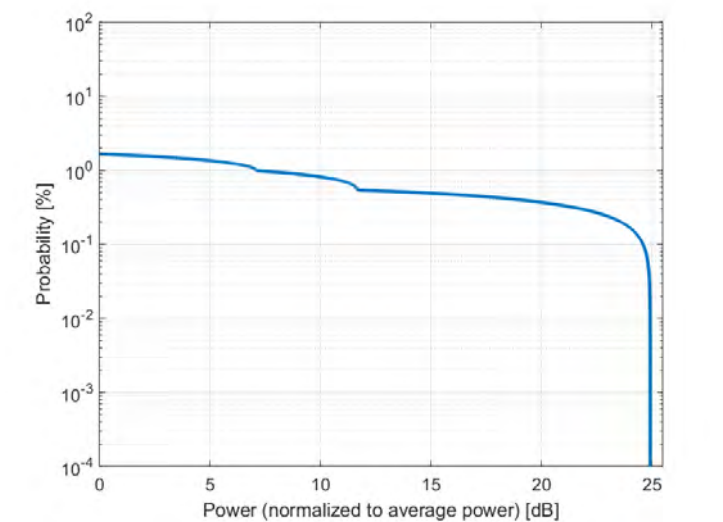
Time Domain

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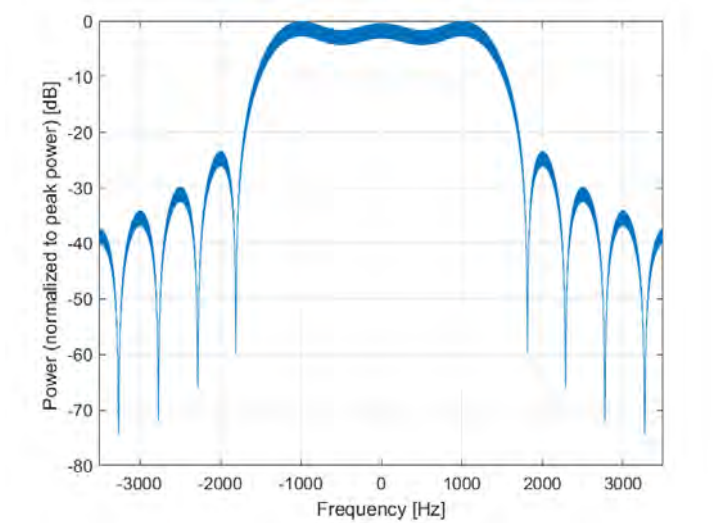
Name:	MITS (3pi Sinc, 100ms, 2ms)
Group:	MRI
UID:	10895-AAA
PAR: ¹	24.58 dB
MIF: ²	16.38 dB
Standard Reference:	SPEAG
Category:	Periodic pulsed modulation
Modulation:	AM
Frequency Band:	MRI 1.5T (59.0 - 69.0 MHz) MRI 3T (123.0 - 133.0 MHz) Validation band (0.0 - 6000.0 MHz)
Detailed Specification:	Calibration Sequence for Medical Implant Test System (MITS) Pulse Shape: Sinc +/- 3 Pi Repetition Rate: 10 Hz Duty Cycle: 2%
Bandwidth:	0.0 MHz
Integration Time:	100.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

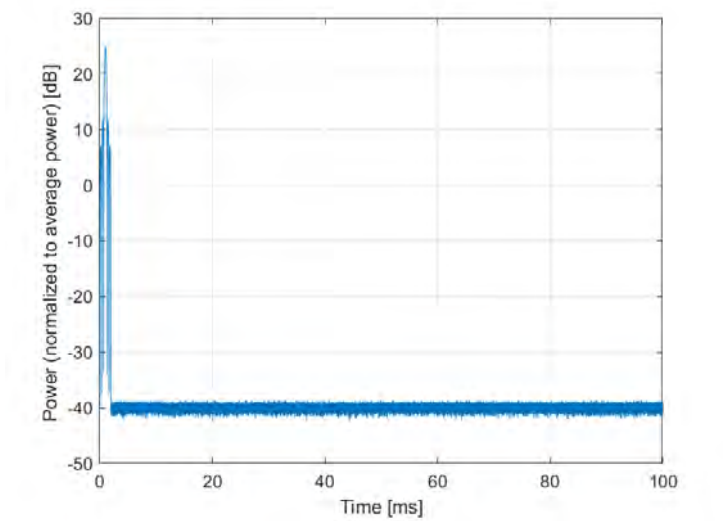
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



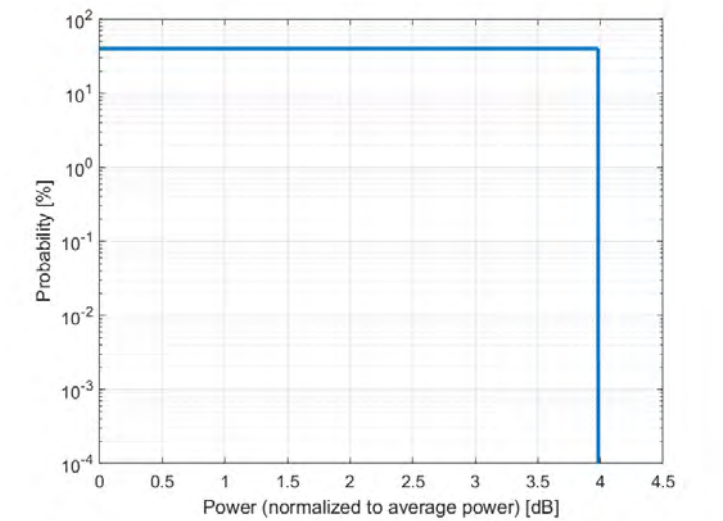
Time Domain

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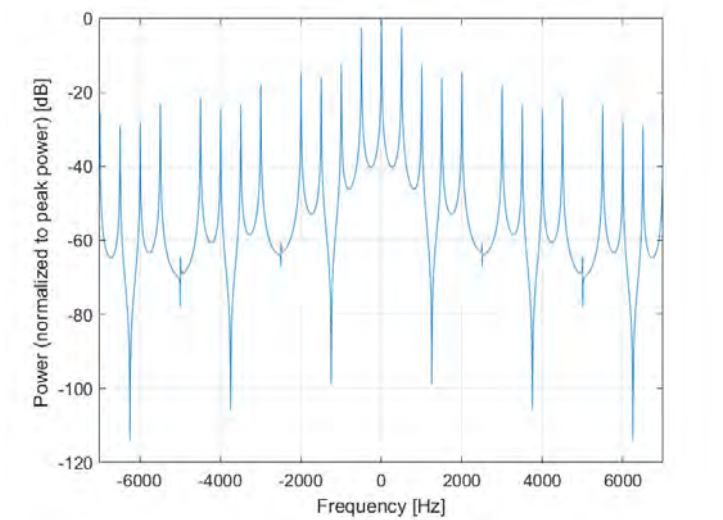
Name:	MRI (Square, 2ms, 0.8ms)
Group:	MRI
UID:	10896-AAA
PAR: ¹	3.98 dB
MIF: ²	-0.27 dB
Standard Reference:	SPEAG
Category:	Periodic pulsed modulation
Modulation:	AM
Frequency Band:	MRI 1.5T (59.0 - 69.0 MHz) MRI 3T (123.0 - 133.0 MHz) Validation band (0.0 - 6000.0 MHz)
Detailed Specification:	Custom Calibration Sequence Pulse Shape: Rectangular Repetition Rate: 500 Hz Duty Cycle: 40%
Bandwidth:	0.0 MHz
Integration Time:	2.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

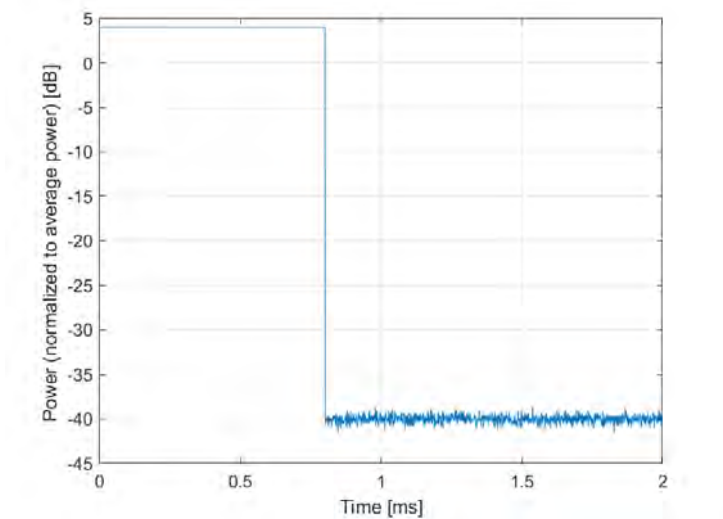
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain

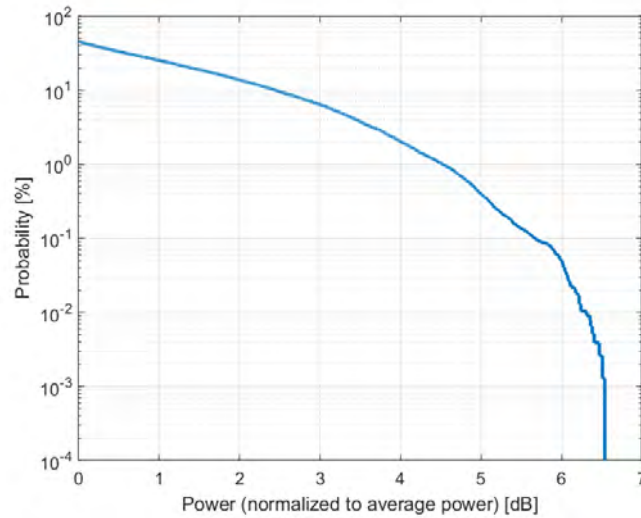


Time Domain

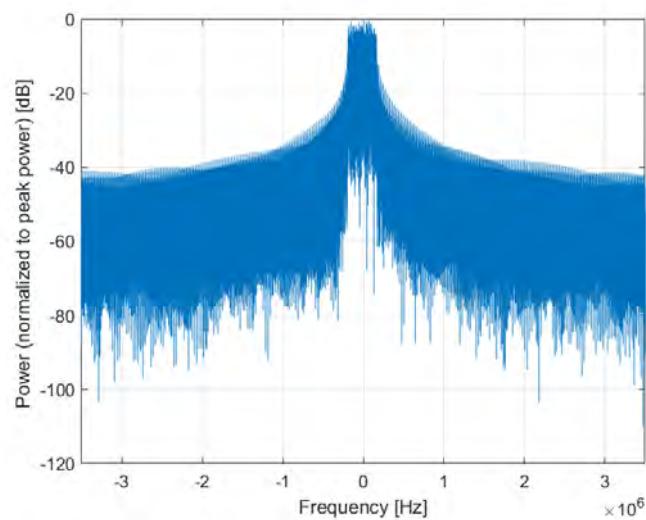
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Zeughausstrasse 43, 8004 Zurich, Switzerland

Name:	5G NR (DFT-s-OFDM, 1 RB, 5 MHz, QPSK, 30 kHz)
Group:	5G NR FR1 TDD
UID:	10897-AAE
PAR: ¹	5.66 dB
MIF: ²	-16.67 dB
Standard Reference:	SPEAG
Category:	Random amplitude modulation
Modulation:	QPSK
Frequency Band:	Band n34 (2010 - 2025 MHz) Band n38 (2570 - 2620 MHz) Band n39 (1880 - 1920 MHz) Band n40 (2300 - 2400 MHz) Band n48 (3550 - 3700 MHz) Band n50 (1432 - 1517 MHz) Band n51 (1427 - 1432 MHz) Band n53 (2483.5 - 2495 MHz) Band n101 (1900 - 1910 MHz) Validation band (0.0 - 6000.0 MHz)
Detailed Specification:	Multiplexing Scheme: DFT-s-OFDM Modulation Scheme: QPSK Subcarrier Spacing: 30 kHz Number RBs: 1 Slot Format Index: 1 Data Type: PN9
Bandwidth:	5.0 MHz
Integration Time:	10.0 ms

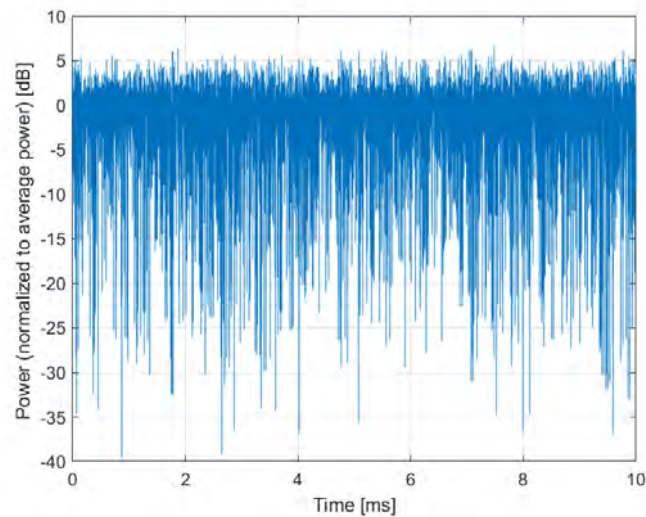
¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



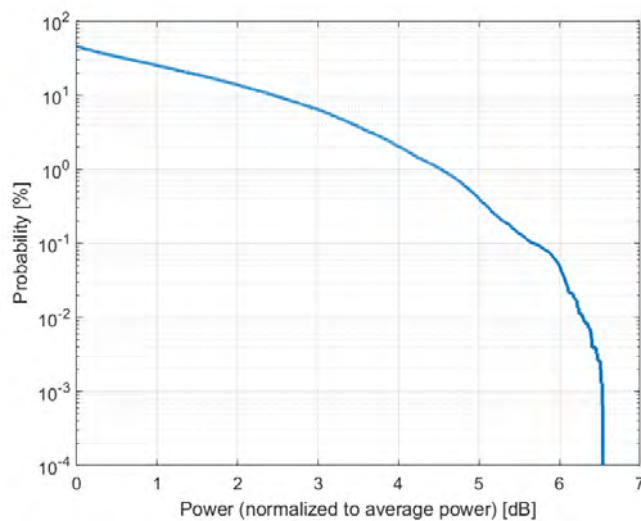
Time Domain

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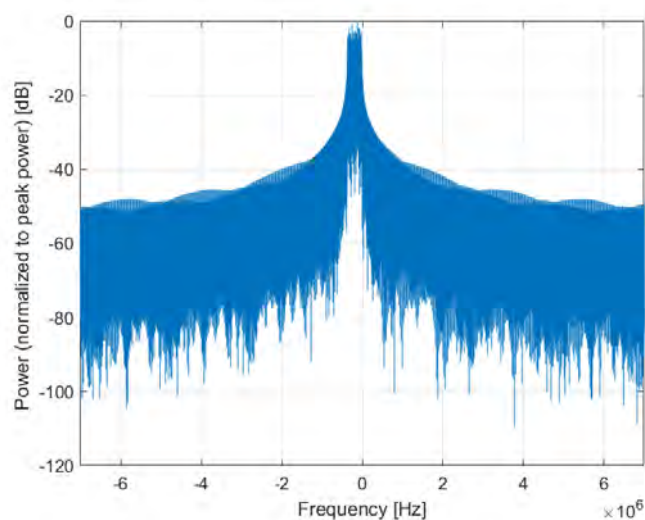
Name:	5G NR (DFT-s-OFDM, 1 RB, 10 MHz, QPSK, 30 kHz)
Group:	5G NR FR1 TDD
UID:	10898-AAC
PAR: ¹	5.67 dB
MIF: ²	-16.68 dB
Standard Reference:	SPEAG
Category:	Random amplitude modulation
Modulation:	QPSK
Frequency Band:	Band n34 (2010 - 2025 MHz) Band n38 (2570 - 2620 MHz) Band n39 (1880 - 1920 MHz) Band n40 (2300 - 2400 MHz) Band n41 (2496 - 2690 MHz) Band n48 (3550 - 3700 MHz) Band n50 (1432 - 1517 MHz) Band n77 (3300 - 4200 MHz) Band n78 (3300 - 3800 MHz) Band n53 (2483.5 - 2495 MHz) Band n90 (2496 - 2690 MHz) Band n47 (5855 - 5925 MHz) Band n46 (5150 - 5925 MHz) Band n101 (1900 - 1910 MHz) Validation band (0.0 - 6000.0 MHz)
Detailed Specification:	Multiplexing Scheme: DFT-s-OFDM Modulation Scheme: QPSK Subcarrier Spacing: 30 kHz Number RBs: 1 Slot Format Index: 1 Data Type: PN9
Bandwidth:	10.0 MHz
Integration Time:	10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

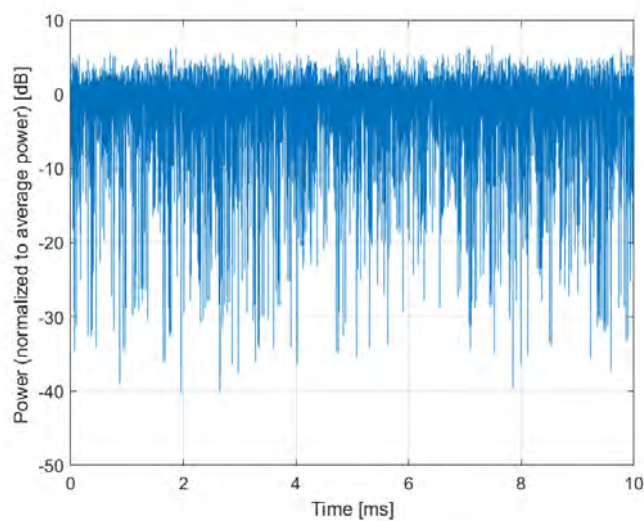
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



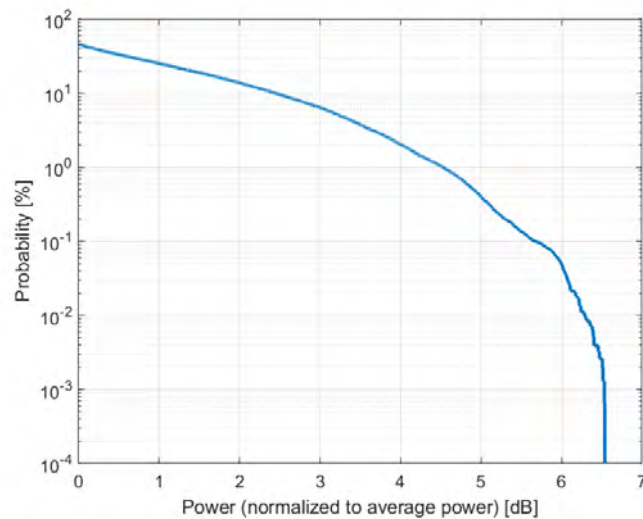
Time Domain

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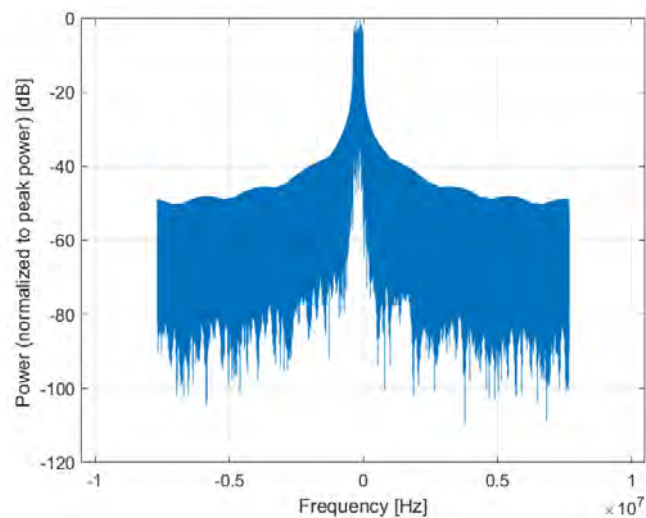
Name:	5G NR (DFT-s-OFDM, 1 RB, 15 MHz, QPSK, 30 kHz)
Group:	5G NR FR1 TDD
UID:	10899-AAB
PAR: ¹	5.67 dB
MIF: ²	-16.68 dB
Standard Reference:	SPEAG
Category:	Random amplitude modulation
Modulation:	QPSK
Frequency Band:	Band n34 (2010 - 2025 MHz) Band n38 (2570 - 2620 MHz) Band n39 (1880 - 1920 MHz) Band n40 (2300 - 2400 MHz) Band n41 (2496 - 2690 MHz) Band n48 (3550 - 3700 MHz) Band n50 (1432 - 1517 MHz) Band n77 (3300 - 4200 MHz) Band n78 (3300 - 3800 MHz) Band n90 (2496 - 2690 MHz) Validation band (0.0 - 6000.0 MHz)
Detailed Specification:	Multiplexing Scheme: DFT-s-OFDM Modulation Scheme: QPSK Subcarrier Spacing: 30 kHz Number RBs: 1 Slot Format Index: 1 Data Type: PN9
Bandwidth:	15.0 MHz
Integration Time:	10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

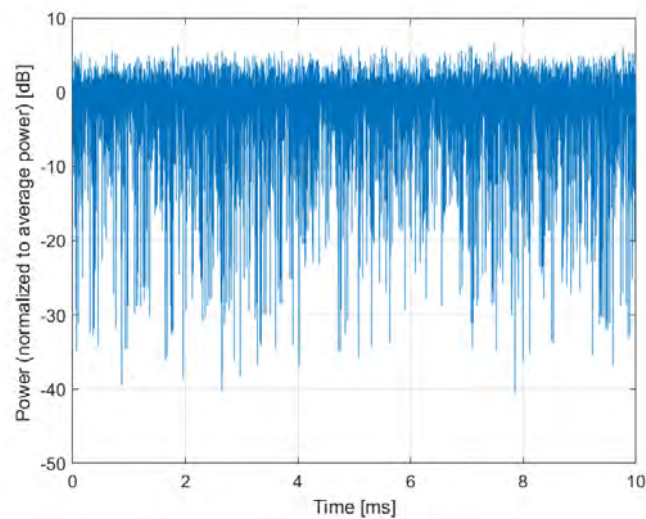
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain

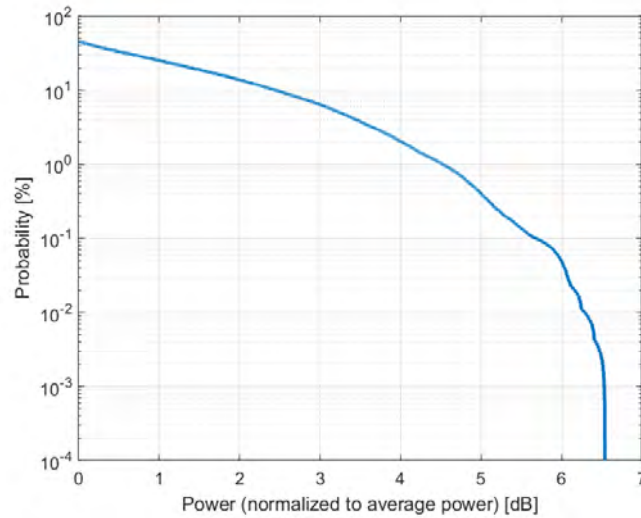


Time Domain

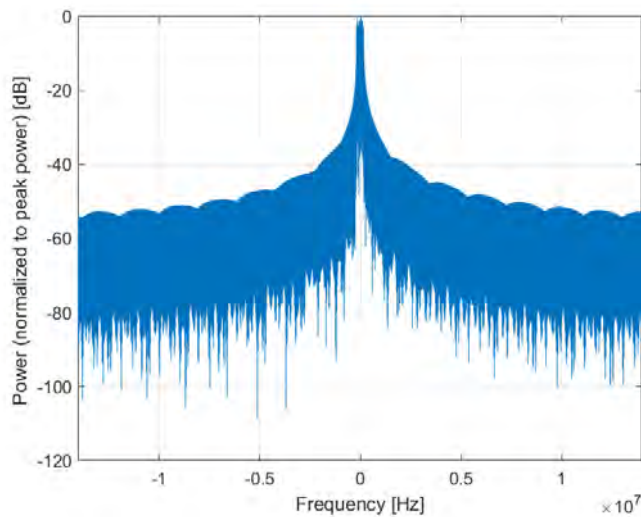
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Zeughausstrasse 43, 8004 Zurich, Switzerland

Name:	5G NR (DFT-s-OFDM, 1 RB, 20 MHz, QPSK, 30 kHz)
Group:	5G NR FR1 TDD
UID:	10900-AAC
PAR: ¹	5.68 dB
MIF: ²	-16.68 dB
Standard Reference:	SPEAG
Category:	Random amplitude modulation
Modulation:	QPSK
Frequency Band:	Band n38 (2570 - 2620 MHz) Band n39 (1880 - 1920 MHz) Band n40 (2300 - 2400 MHz) Band n41 (2496 - 2690 MHz) Band n48 (3550 - 3700 MHz) Band n50 (1432 - 1517 MHz) Band n77 (3300 - 4200 MHz) Band n78 (3300 - 3800 MHz) Band n90 (2496 - 2690 MHz) Band n47 (5855 - 5925 MHz) Band n46 (5150 - 5925 MHz) Band n96 (5925 - 7125 MHz) Band n102 (5925 - 6425 MHz) Band n104 (6425 - 7125 MHz) Validation band (0.0 - 6000.0 MHz)
Detailed Specification:	Multiplexing Scheme: DFT-s-OFDM Modulation Scheme: QPSK Subcarrier Spacing: 30 kHz Number RBs: 1 Slot Format Index: 1 Data Type: PN9
Bandwidth:	20.0 MHz
Integration Time:	10.0 ms

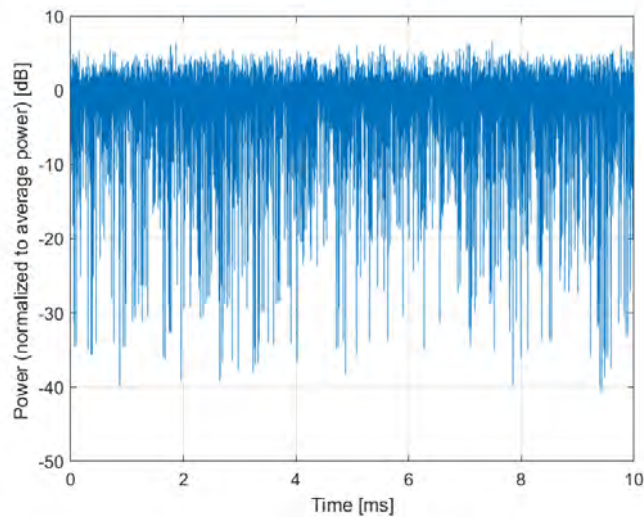
¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain

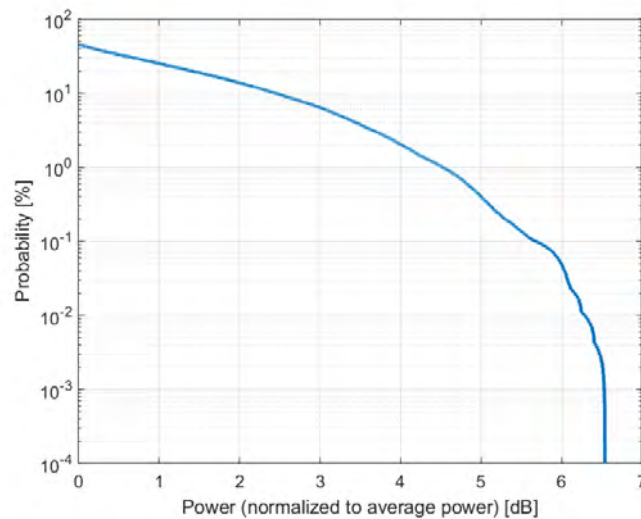


Time Domain

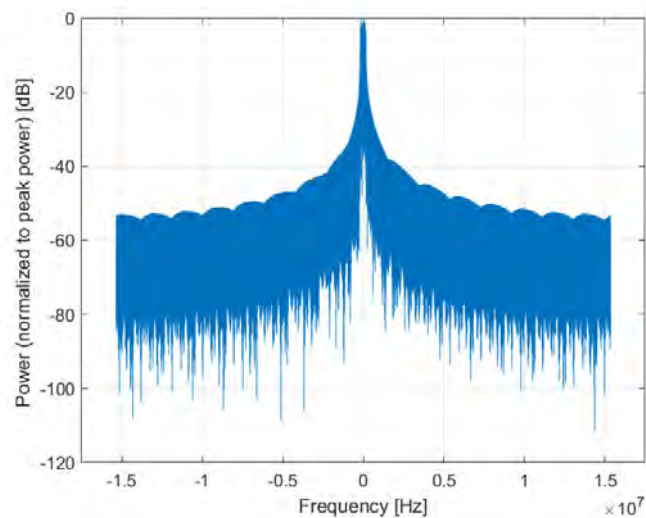
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Engineering AG**
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Name:	5G NR (DFT-s-OFDM, 1 RB, 25 MHz, QPSK, 30 kHz)
Group:	5G NR FR1 TDD
UID:	10901-AAB
PAR: ¹	5.68 dB
MIF: ²	-16.68 dB
Standard Reference:	SPEAG
Category:	Random amplitude modulation
Modulation:	QPSK
Frequency Band:	Band n38 (2570 - 2620 MHz) Band n39 (1880 - 1920 MHz) Band n40 (2300 - 2400 MHz) Band n77 (3300 - 4200 MHz) Band n78 (3300 - 3800 MHz) Validation band (0.0 - 6000.0 MHz)
Detailed Specification:	Multiplexing Scheme: DFT-s-OFDM Modulation Scheme: QPSK Subcarrier Spacing: 30 kHz Number RBs: 1 Slot Format Index: 1 Data Type: PN9
Bandwidth:	25.0 MHz
Integration Time:	10.0 ms

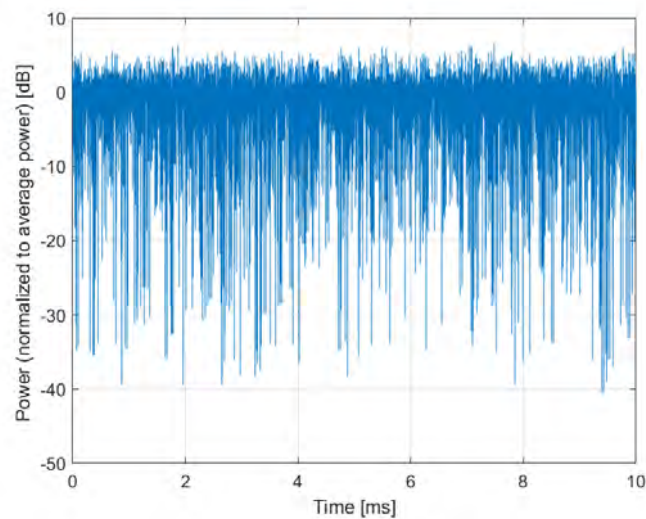
¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



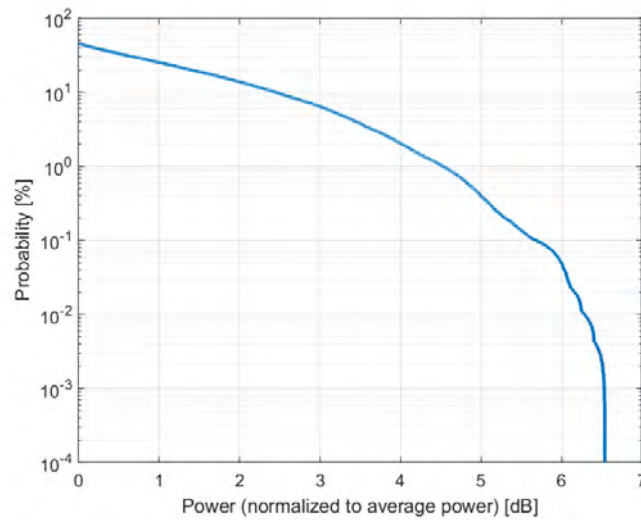
Time Domain

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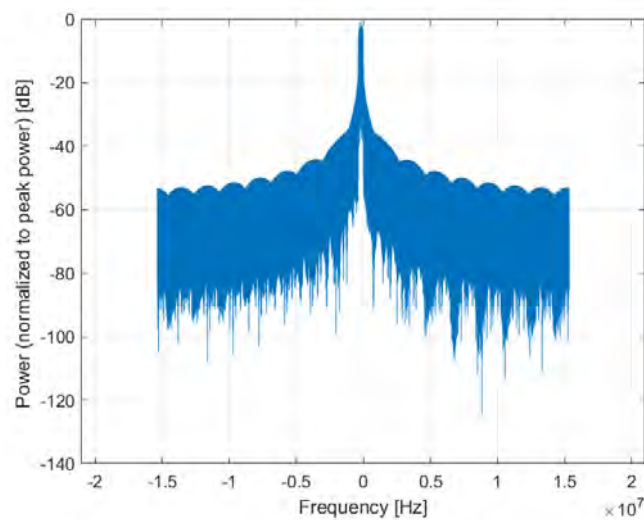
Name:	5G NR (DFT-s-OFDM, 1 RB, 30 MHz, QPSK, 30 kHz)
Group:	5G NR FR1 TDD
UID:	10902-AAC
PAR: ¹	5.68 dB
MIF: ²	-16.68 dB
Standard Reference:	SPEAG
Category:	Random amplitude modulation
Modulation:	QPSK
Frequency Band:	Band n38 (2570 - 2620 MHz) Band n39 (1880 - 1920 MHz) Band n40 (2300 - 2400 MHz) Band n41 (2496 - 2690 MHz) Band n50 (1432 - 1517 MHz) Band n77 (3300 - 4200 MHz) Band n78 (3300 - 3800 MHz) Band n90 (2496 - 2690 MHz) Band n47 (5855 - 5925 MHz) Band n104 (6425 - 7125 MHz) Validation band (0.0 - 6000.0 MHz)
Detailed Specification:	Multiplexing Scheme: DFT-s-OFDM Modulation Scheme: QPSK Subcarrier Spacing: 30 kHz Number RBs: 1 Slot Format Index: 1 Data Type: PN9
Bandwidth:	30.0 MHz
Integration Time:	10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

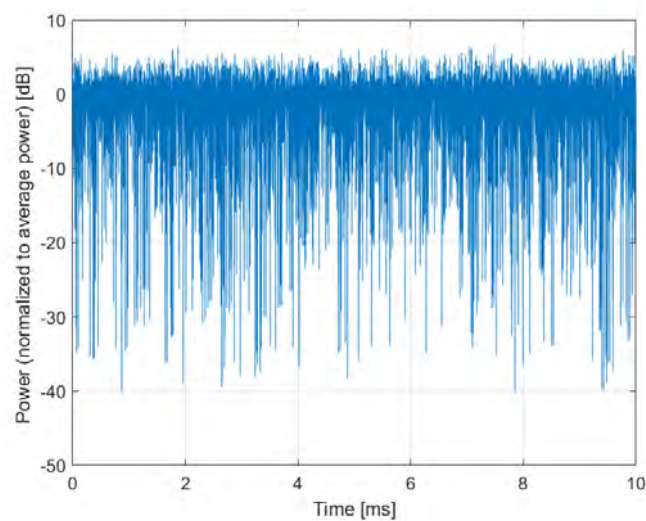
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



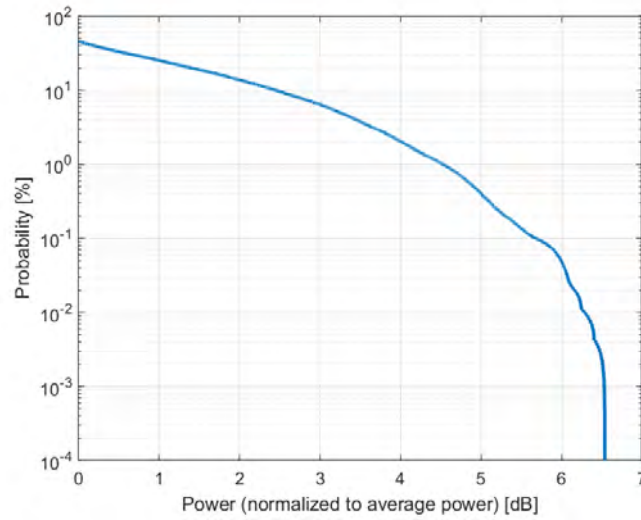
Time Domain

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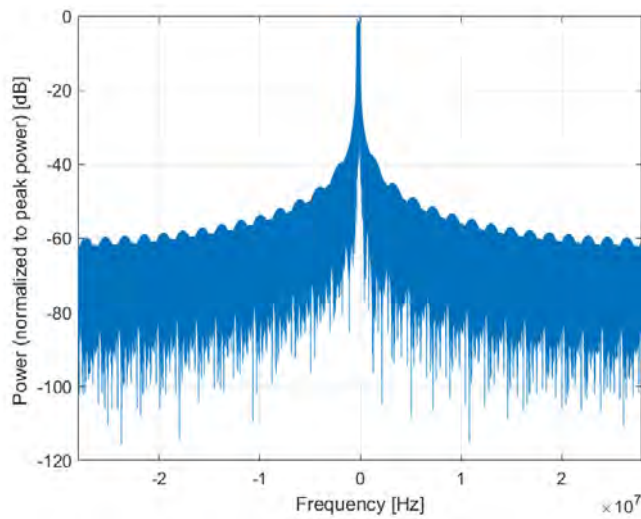
Name:	5G NR (DFT-s-OFDM, 1 RB, 40 MHz, QPSK, 30 kHz)
Group:	5G NR FR1 TDD
UID:	10903-AAD
PAR: ¹	5.68 dB
MIF: ²	-16.68 dB
Standard Reference:	SPEAG
Category:	Random amplitude modulation
Modulation:	QPSK
Frequency Band:	Band n38 (2570 - 2620 MHz) Band n39 (1880 - 1920 MHz) Band n40 (2300 - 2400 MHz) Band n41 (2496 - 2690 MHz) Band n48 (3550 - 3700 MHz) Band n50 (1432 - 1517 MHz) Band n77 (3300 - 4200 MHz) Band n78 (3300 - 3800 MHz) Band n79 (4400 - 5000 MHz) Band n90 (2496 - 2690 MHz) Band n47 (5855 - 5925 MHz) Band n46 (5150 - 5925 MHz) Band n96 (5925 - 7125 MHz) Band n102 (5925 - 6425 MHz) Band n104 (6425 - 7125 MHz) Validation band (0.0 - 6000.0 MHz)
Detailed Specification:	Multiplexing Scheme: DFT-s-OFDM Modulation Scheme: QPSK Subcarrier Spacing: 30 kHz Number RBs: 1 Slot Format Index: 1 Data Type: PN9
Bandwidth:	40.0 MHz
Integration Time:	10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

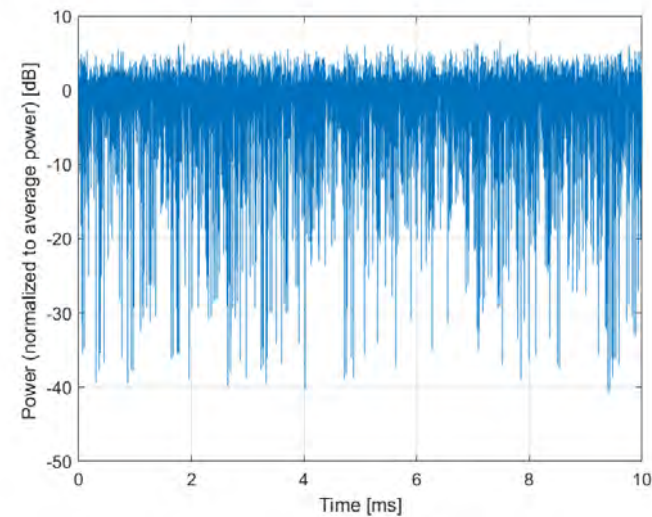
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



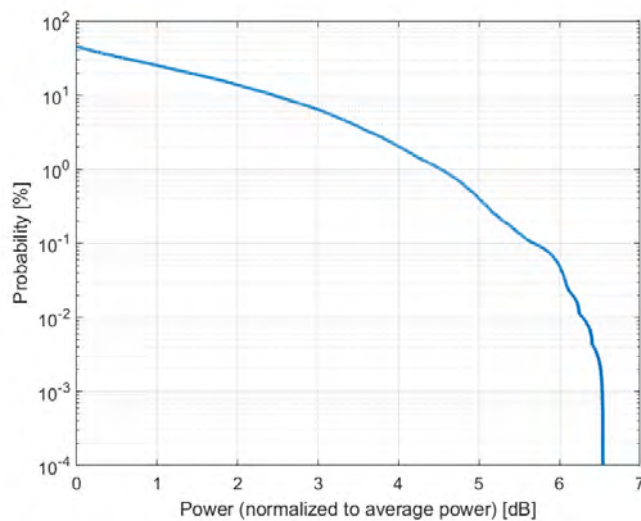
Time Domain

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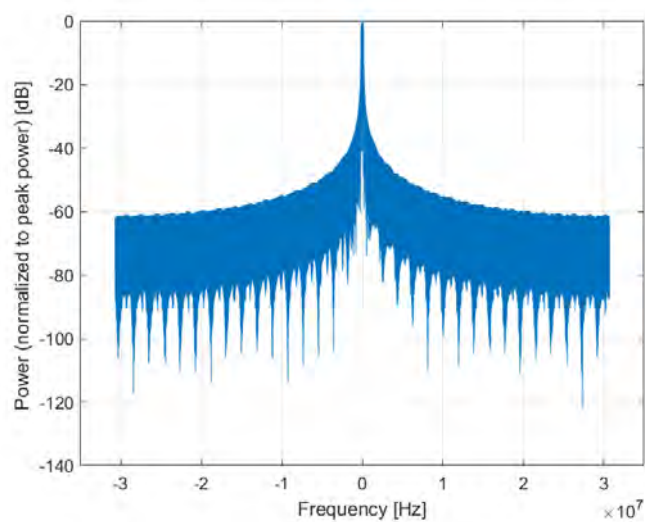
Name:	5G NR (DFT-s-OFDM, 1 RB, 50 MHz, QPSK, 30 kHz)
Group:	5G NR FR1 TDD
UID:	10904-AAC
PAR: ¹	5.68 dB
MIF: ²	-16.68 dB
Standard Reference:	SPEAG
Category:	Random amplitude modulation
Modulation:	QPSK
Frequency Band:	Band n40 (2300 - 2400 MHz) Band n41 (2496 - 2690 MHz) Band n48 (3550 - 3700 MHz) Band n50 (1432 - 1517 MHz) Band n77 (3300 - 4200 MHz) Band n78 (3300 - 3800 MHz) Band n79 (4400 - 5000 MHz) Band n90 (2496 - 2690 MHz) Band n104 (6425 - 7125 MHz) Validation band (0.0 - 6000.0 MHz)
Detailed Specification:	Multiplexing Scheme: DFT-s-OFDM Modulation Scheme: QPSK Subcarrier Spacing: 30 kHz Number RBs: 1 Slot Format Index: 1 Data Type: PN9
Bandwidth:	50.0 MHz
Integration Time:	10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

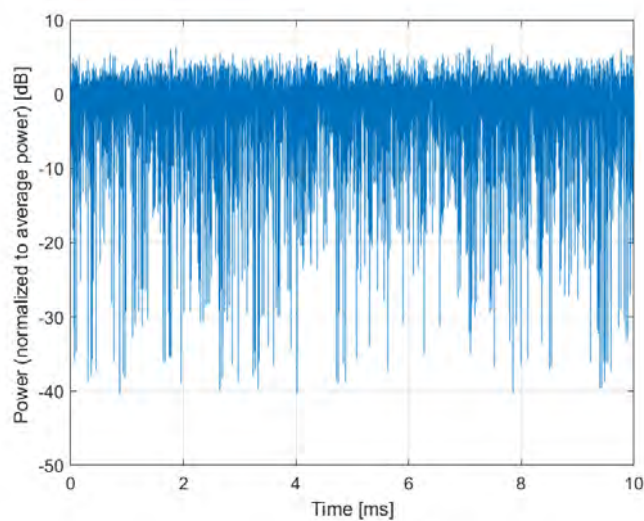
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



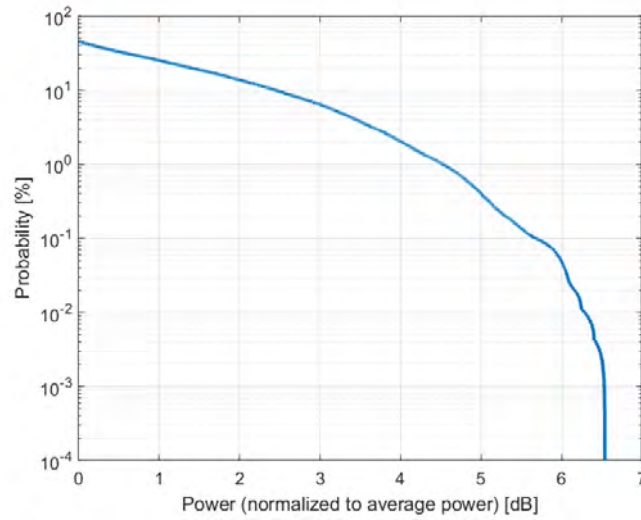
Time Domain

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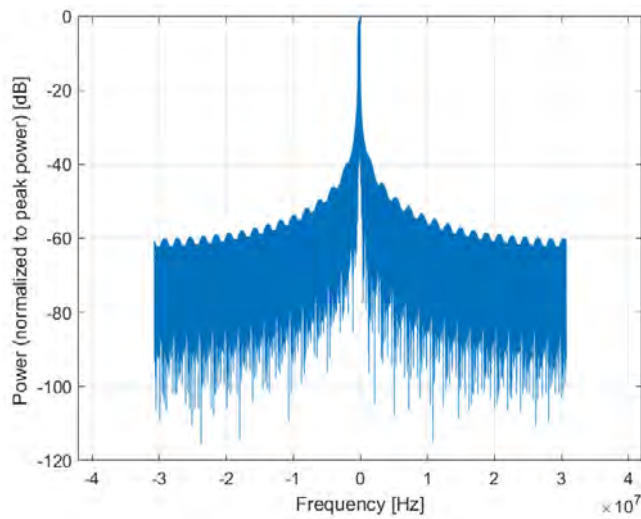
Name:	5G NR (DFT-s-OFDM, 1 RB, 60 MHz, QPSK, 30 kHz)
Group:	5G NR FR1 TDD
UID:	10905-AAD
PAR: ¹	5.68 dB
MIF: ²	-16.68 dB
Standard Reference:	SPEAG
Category:	Random amplitude modulation
Modulation:	QPSK
Frequency Band:	Band n40 (2300 - 2400 MHz) Band n41 (2496 - 2690 MHz) Band n48 (3550 - 3700 MHz) Band n50 (1432 - 1517 MHz) Band n77 (3300 - 4200 MHz) Band n78 (3300 - 3800 MHz) Band n79 (4400 - 5000 MHz) Band n90 (2496 - 2690 MHz) Band n46 (5150 - 5925 MHz) Band n96 (5925 - 7125 MHz) Band n102 (5925 - 6425 MHz) Band n104 (6425 - 7125 MHz) Validation band (0.0 - 6000.0 MHz)
Detailed Specification:	Multiplexing Scheme: DFT-s-OFDM Modulation Scheme: QPSK Subcarrier Spacing: 30 kHz Number RBs: 1 Slot Format Index: 1 Data Type: PN9
Bandwidth:	60.0 MHz
Integration Time:	10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

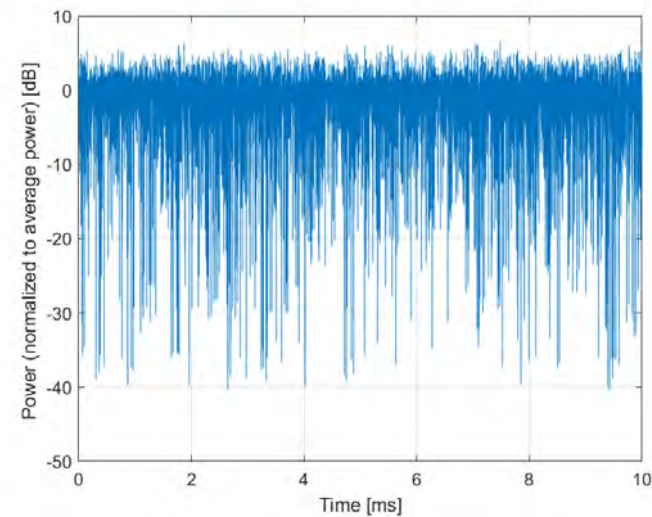
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



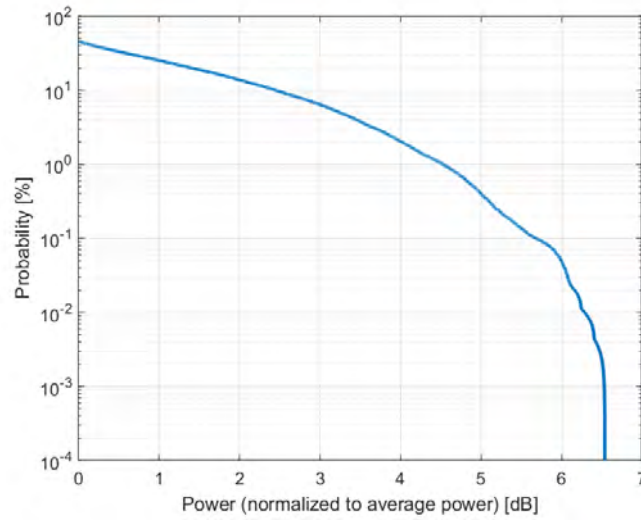
Time Domain

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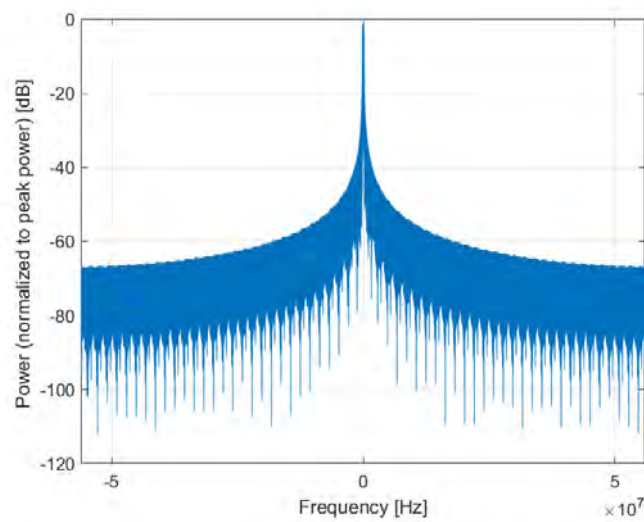
Name:	5G NR (DFT-s-OFDM, 1 RB, 80 MHz, QPSK, 30 kHz)
Group:	5G NR FR1 TDD
UID:	10906-AAD
PAR: ¹	5.68 dB
MIF: ²	-16.69 dB
Standard Reference:	SPEAG
Category:	Random amplitude modulation
Modulation:	QPSK
Frequency Band:	Band n40 (2300 - 2400 MHz) Band n41 (2496 - 2690 MHz) Band n48 (3550 - 3700 MHz) Band n50 (1432 - 1517 MHz) Band n77 (3300 - 4200 MHz) Band n78 (3300 - 3800 MHz) Band n79 (4400 - 5000 MHz) Band n90 (2496 - 2690 MHz) Band n46 (5150 - 5925 MHz) Band n96 (5925 - 7125 MHz) Band n102 (5925 - 6425 MHz) Band n104 (6425 - 7125 MHz) Validation band (0.0 - 6000.0 MHz)
Detailed Specification:	Multiplexing Scheme: DFT-s-OFDM Modulation Scheme: QPSK Subcarrier Spacing: 30 kHz Number RBs: 1 Slot Format Index: 1 Data Type: PN9
Bandwidth:	80.0 MHz
Integration Time:	10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

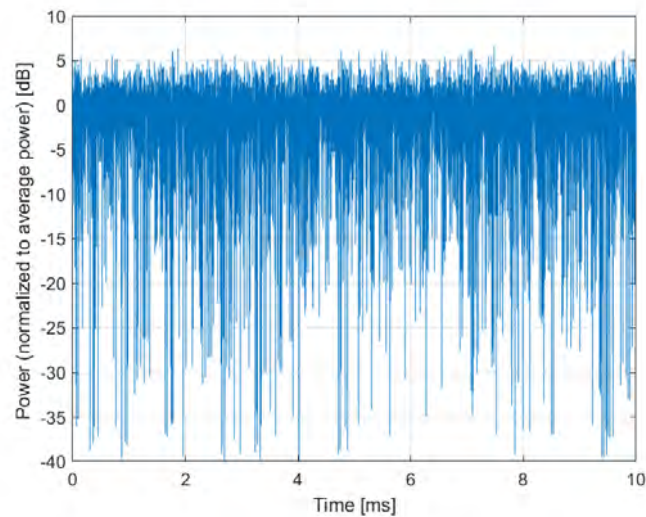
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain

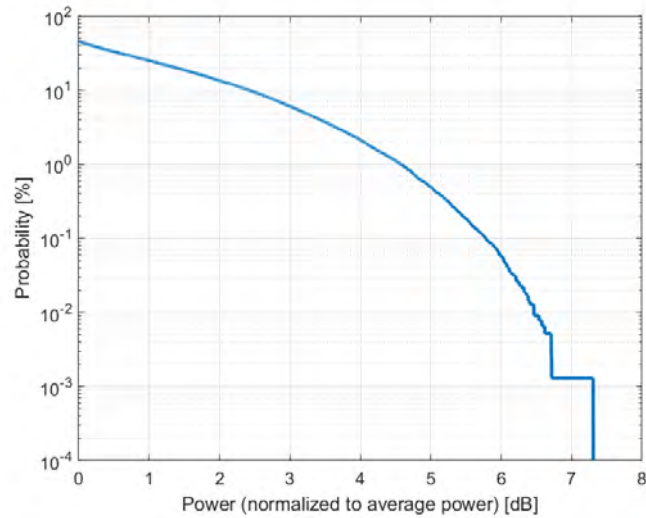


Time Domain

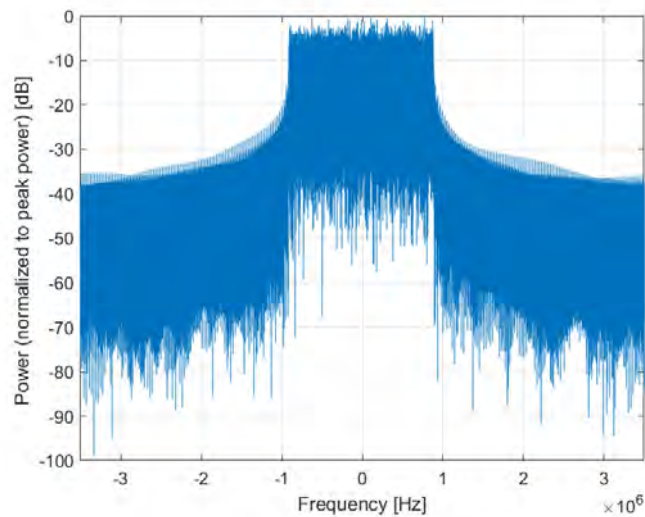
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Name:	5G NR (DFT-s-OFDM, 50% RB, 5 MHz, QPSK, 30 kHz)
Group:	5G NR FR1 TDD
UID:	10907-AAE
PAR: ¹	5.78 dB
MIF: ²	-19.09 dB
Standard Reference:	SPEAG
Category:	Random amplitude modulation
Modulation:	QPSK
Frequency Band:	Band n34 (2010 - 2025 MHz) Band n38 (2570 - 2620 MHz) Band n39 (1880 - 1920 MHz) Band n40 (2300 - 2400 MHz) Band n48 (3550 - 3700 MHz) Band n50 (1432 - 1517 MHz) Band n51 (1427 - 1432 MHz) Band n53 (2483.5 - 2495 MHz) Band n101 (1900 - 1910 MHz) Validation band (0.0 - 6000.0 MHz)
Detailed Specification:	Multiplexing Scheme: DFT-s-OFDM Modulation Scheme: QPSK Subcarrier Spacing: 30 kHz Number RBs: 5 Slot Format Index: 1 Data Type: PN9
Bandwidth:	5.0 MHz
Integration Time:	10.0 ms

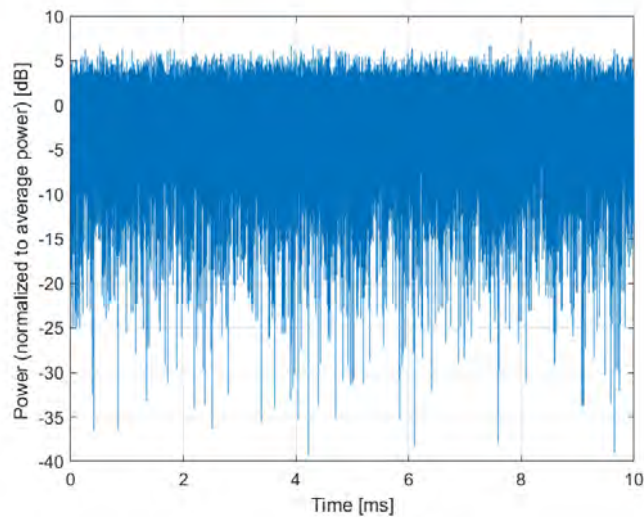
¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

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Name: **5G NR (DFT-s-OFDM, 50% RB, 10 MHz, QPSK, 30 kHz)**

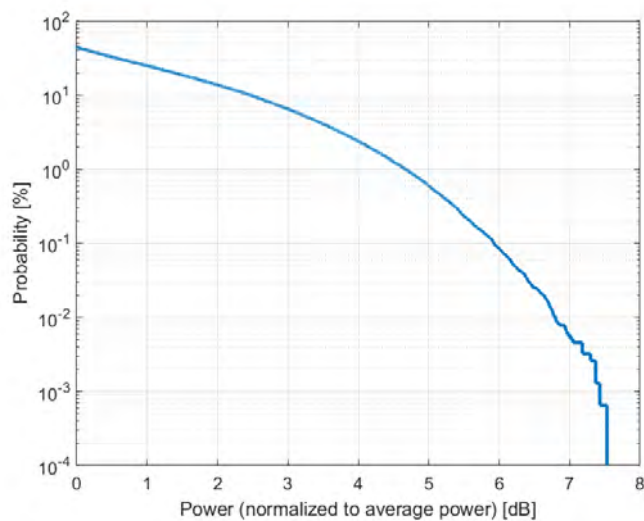
Group: 5G NR FR1 TDD
UID: 10908-AAC

PAR: ¹ **5.93 dB**
MIF: ² **-19.67 dB**

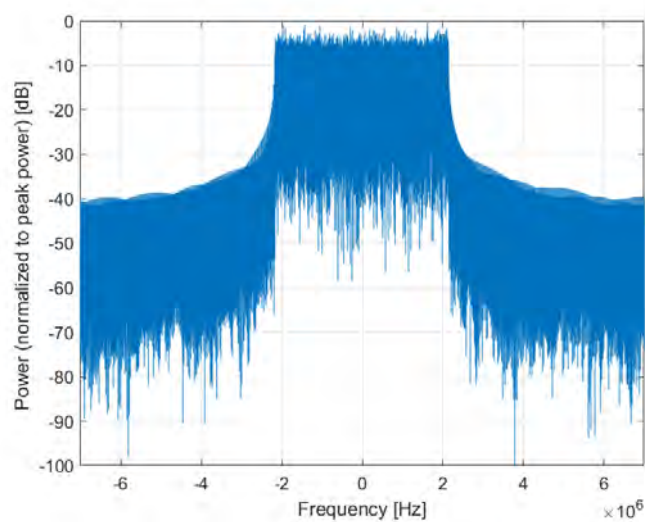
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: QPSK
Frequency Band: Band n34 (2010 - 2025 MHz)
Band n38 (2570 - 2620 MHz)
Band n39 (1880 - 1920 MHz)
Band n40 (2300 - 2400 MHz)
Band n41 (2496 - 2690 MHz)
Band n48 (3550 - 3700 MHz)
Band n50 (1432 - 1517 MHz)
Band n77 (3300 - 4200 MHz)
Band n78 (3300 - 3800 MHz)
Band n53 (2483.5 - 2495 MHz)
Band n90 (2496 - 2690 MHz)
Band n47 (5855 - 5925 MHz)
Band n46 (5150 - 5925 MHz)
Band n101 (1900 - 1910 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Multiplexing Scheme: DFT-s-OFDM
Modulation Scheme: QPSK
Subcarrier Spacing: 30 kHz
Number RBs: 12
Slot Format Index: 1
Data Type: PN9
Bandwidth: 10.0 MHz
Integration Time: 10.0 ms

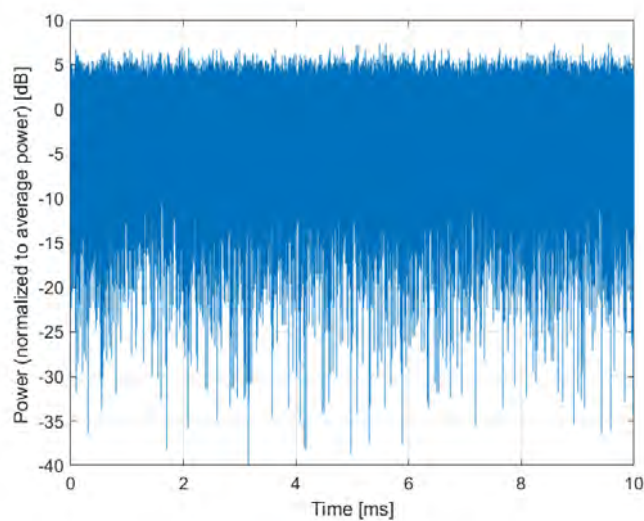
¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



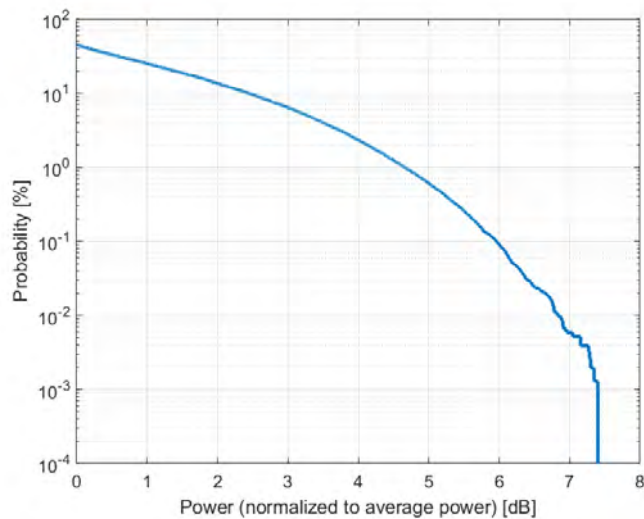
Time Domain

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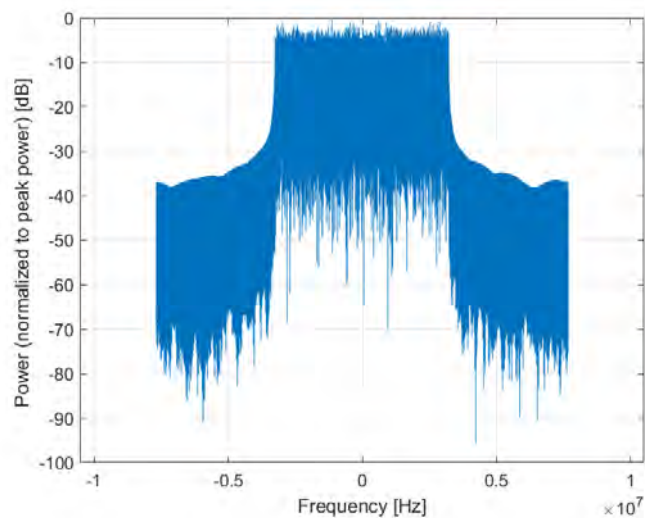
Name:	5G NR (DFT-s-OFDM, 50% RB, 15 MHz, QPSK, 30 kHz)
Group:	5G NR FR1 TDD
UID:	10909-AAB
PAR: ¹	5.96 dB
MIF: ²	-20.01 dB
Standard Reference:	SPEAG
Category:	Random amplitude modulation
Modulation:	QPSK
Frequency Band:	Band n34 (2010 - 2025 MHz) Band n38 (2570 - 2620 MHz) Band n39 (1880 - 1920 MHz) Band n40 (2300 - 2400 MHz) Band n41 (2496 - 2690 MHz) Band n48 (3550 - 3700 MHz) Band n50 (1432 - 1517 MHz) Band n77 (3300 - 4200 MHz) Band n78 (3300 - 3800 MHz) Band n90 (2496 - 2690 MHz) Validation band (0.0 - 6000.0 MHz)
Detailed Specification:	Multiplexing Scheme: DFT-s-OFDM Modulation Scheme: QPSK Subcarrier Spacing: 30 kHz Number RBs: 18 Slot Format Index: 1 Data Type: PN9
Bandwidth:	15.0 MHz
Integration Time:	10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

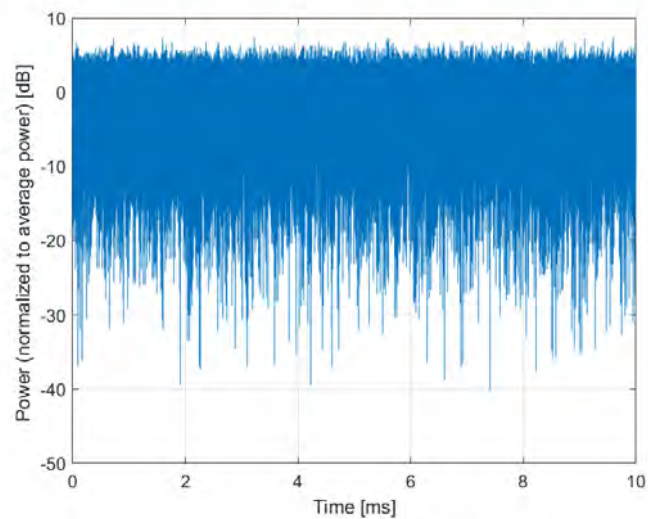
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain

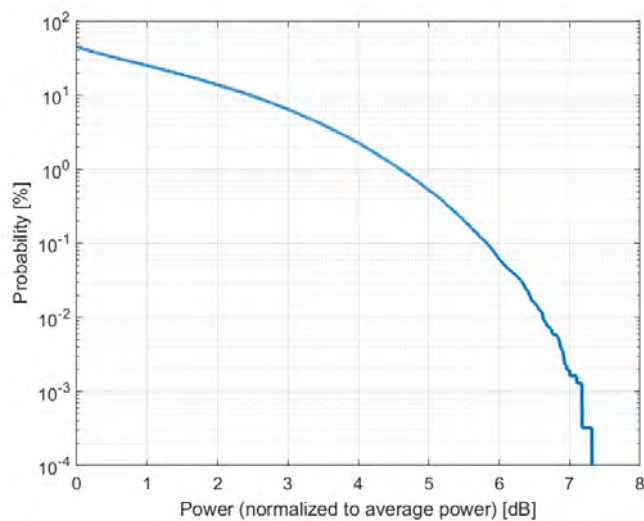


Time Domain

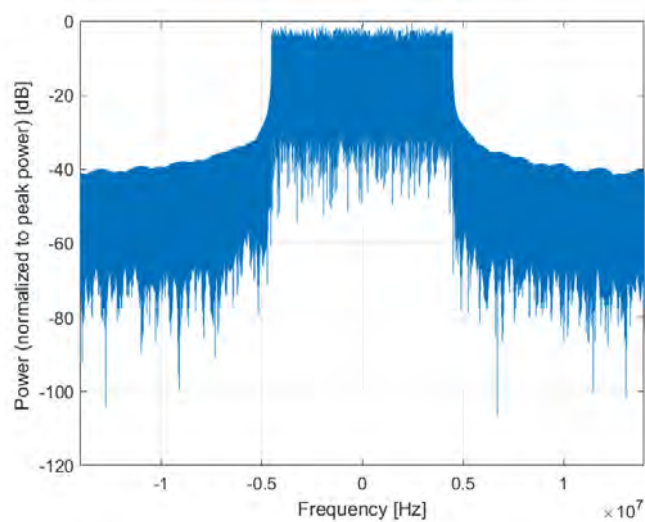
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Name:	5G NR (DFT-s-OFDM, 50% RB, 20 MHz, QPSK, 30 kHz)
Group:	5G NR FR1 TDD
UID:	10910-AAC
PAR: ¹	5.83 dB
MIF: ²	-20.30 dB
Standard Reference:	SPEAG
Category:	Random amplitude modulation
Modulation:	QPSK
Frequency Band:	Band n38 (2570 - 2620 MHz) Band n39 (1880 - 1920 MHz) Band n40 (2300 - 2400 MHz) Band n41 (2496 - 2690 MHz) Band n48 (3550 - 3700 MHz) Band n50 (1432 - 1517 MHz) Band n77 (3300 - 4200 MHz) Band n78 (3300 - 3800 MHz) Band n90 (2496 - 2690 MHz) Band n47 (5855 - 5925 MHz) Band n46 (5150 - 5925 MHz) Band n96 (5925 - 7125 MHz) Band n102 (5925 - 6425 MHz) Band n104 (6425 - 7125 MHz) Validation band (0.0 - 6000.0 MHz)
Detailed Specification:	Multiplexing Scheme: DFT-s-OFDM Modulation Scheme: QPSK Subcarrier Spacing: 30 kHz Number RBs: 25 Slot Format Index: 1 Data Type: PN9
Bandwidth:	20.0 MHz
Integration Time:	10.0 ms

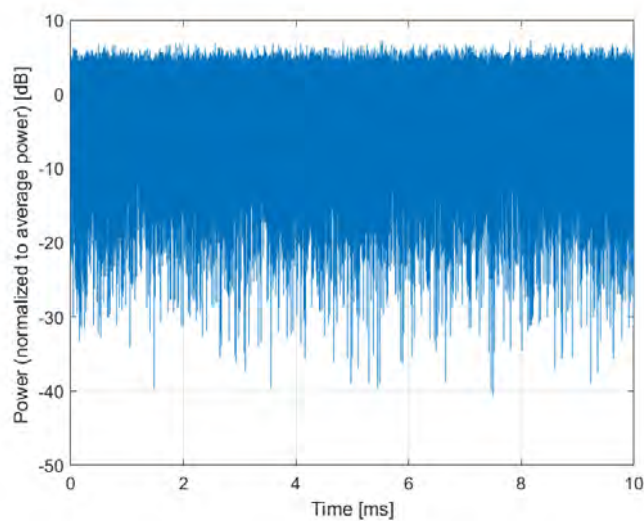
¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain

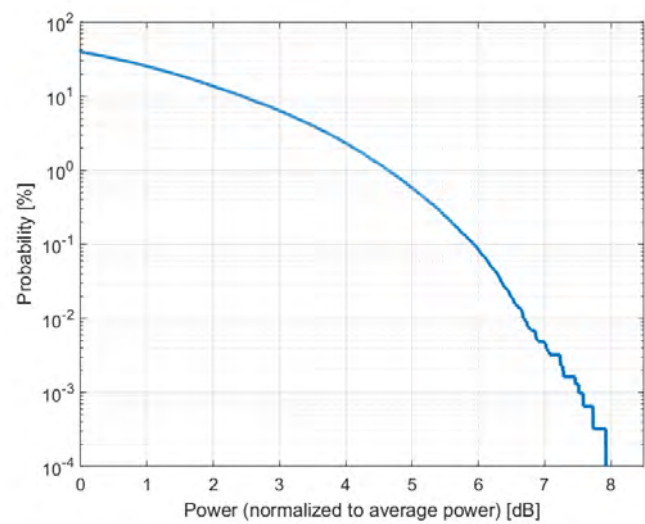


Time Domain

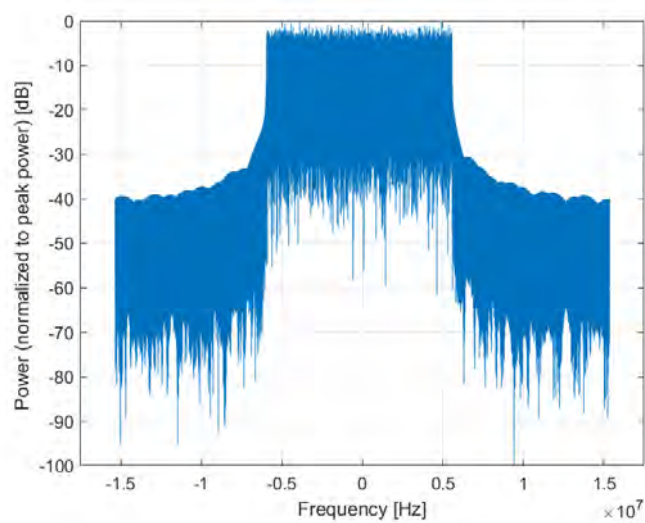
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Name:	5G NR (DFT-s-OFDM, 50% RB, 25 MHz, QPSK, 30 kHz)
Group:	5G NR FR1 TDD
UID:	10911-AAB
PAR: ¹	5.93 dB
MIF: ²	-20.40 dB
Standard Reference:	SPEAG
Category:	Random amplitude modulation
Modulation:	QPSK
Frequency Band:	Band n38 (2570 - 2620 MHz) Band n39 (1880 - 1920 MHz) Band n40 (2300 - 2400 MHz) Band n77 (3300 - 4200 MHz) Band n78 (3300 - 3800 MHz) Validation band (0.0 - 6000.0 MHz)
Detailed Specification:	Multiplexing Scheme: DFT-s-OFDM Modulation Scheme: QPSK Subcarrier Spacing: 30 kHz Number RBs: 32 Slot Format Index: 1 Data Type: PN9
Bandwidth:	25.0 MHz
Integration Time:	10.0 ms

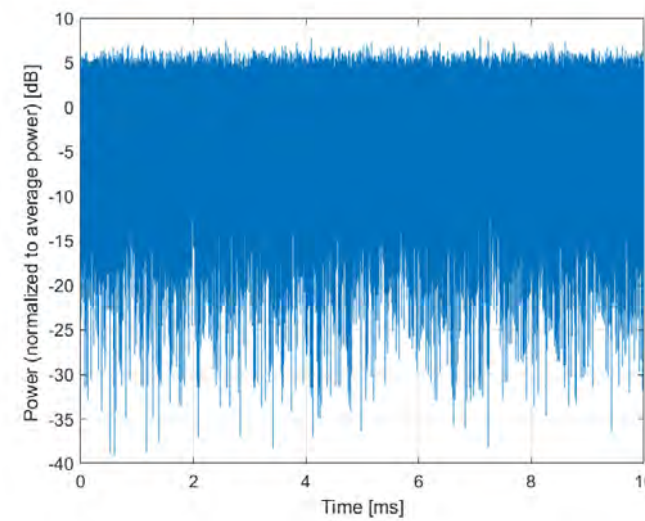
¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain

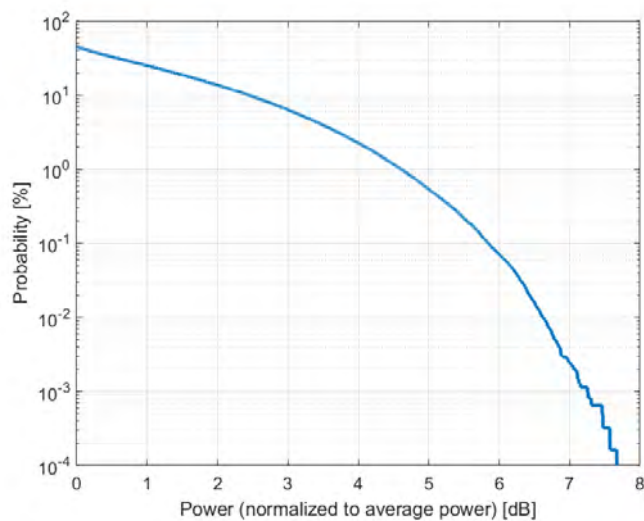


Time Domain

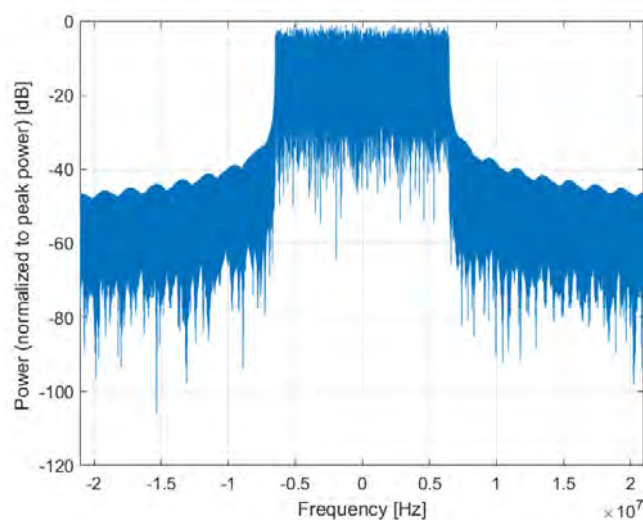
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Name:	5G NR (DFT-s-OFDM, 50% RB, 30 MHz, QPSK, 30 kHz)
Group:	5G NR FR1 TDD
UID:	10912-AAC
PAR: ¹	5.84 dB
MIF: ²	-20.39 dB
Standard Reference:	SPEAG
Category:	Random amplitude modulation
Modulation:	QPSK
Frequency Band:	Band n38 (2570 - 2620 MHz) Band n39 (1880 - 1920 MHz) Band n40 (2300 - 2400 MHz) Band n41 (2496 - 2690 MHz) Band n50 (1432 - 1517 MHz) Band n77 (3300 - 4200 MHz) Band n78 (3300 - 3800 MHz) Band n90 (2496 - 2690 MHz) Band n47 (5855 - 5925 MHz) Band n104 (6425 - 7125 MHz) Validation band (0.0 - 6000.0 MHz)
Detailed Specification:	Multiplexing Scheme: DFT-s-OFDM Modulation Scheme: QPSK Subcarrier Spacing: 30 kHz Number RBs: 36 Slot Format Index: 1 Data Type: PN9
Bandwidth:	30.0 MHz
Integration Time:	10.0 ms

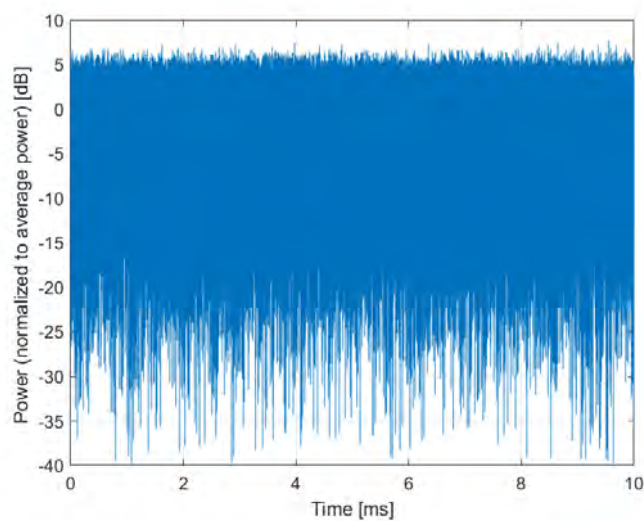
¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain

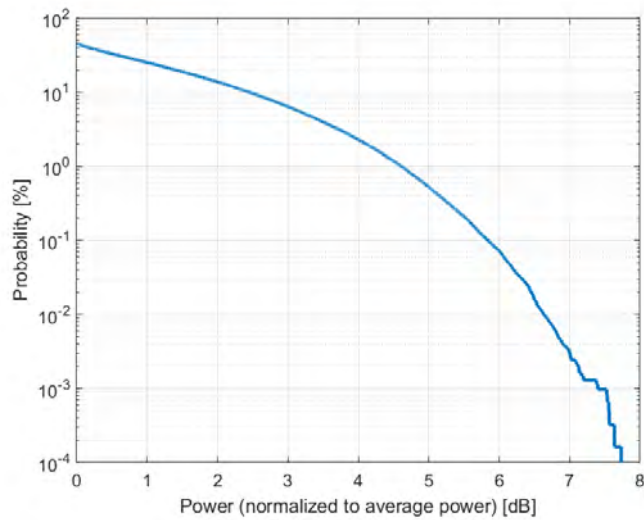


Time Domain

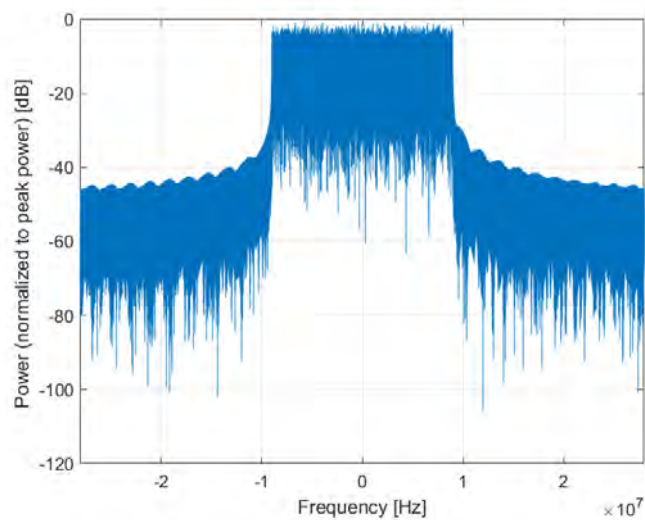
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Name:	5G NR (DFT-s-OFDM, 50% RB, 40 MHz, QPSK, 30 kHz)
Group:	5G NR FR1 TDD
UID:	10913-AAD
PAR: ¹	5.84 dB
MIF: ²	-20.15 dB
Standard Reference:	SPEAG
Category:	Random amplitude modulation
Modulation:	QPSK
Frequency Band:	Band n38 (2570 - 2620 MHz) Band n39 (1880 - 1920 MHz) Band n40 (2300 - 2400 MHz) Band n41 (2496 - 2690 MHz) Band n48 (3550 - 3700 MHz) Band n50 (1432 - 1517 MHz) Band n77 (3300 - 4200 MHz) Band n78 (3300 - 3800 MHz) Band n79 (4400 - 5000 MHz) Band n90 (2496 - 2690 MHz) Band n47 (5855 - 5925 MHz) Band n46 (5150 - 5925 MHz) Band n96 (5925 - 7125 MHz) Band n102 (5925 - 6425 MHz) Band n104 (6425 - 7125 MHz) Validation band (0.0 - 6000.0 MHz)
Detailed Specification:	Multiplexing Scheme: DFT-s-OFDM Modulation Scheme: QPSK Subcarrier Spacing: 30 kHz Number RBs: 50 Slot Format Index: 1 Data Type: PN9
Bandwidth:	40.0 MHz
Integration Time:	10.0 ms

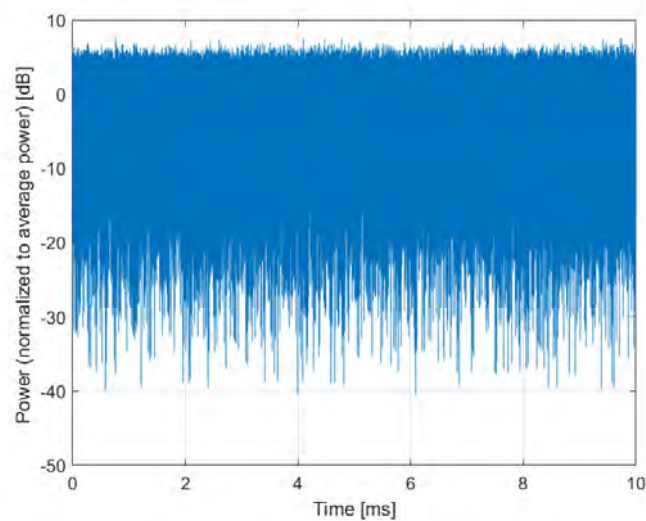
¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain

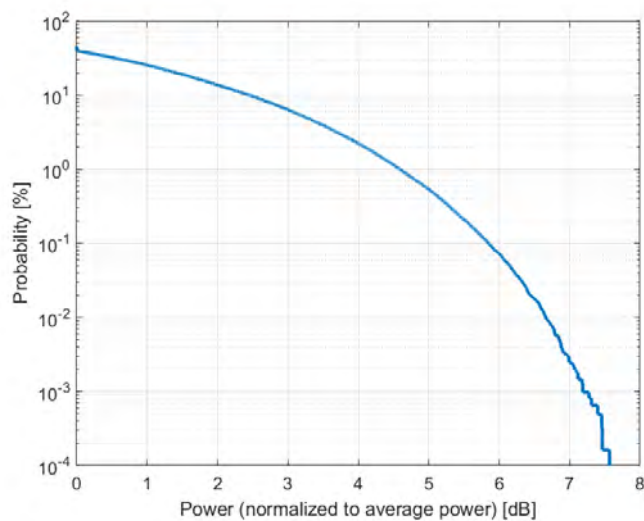


Time Domain

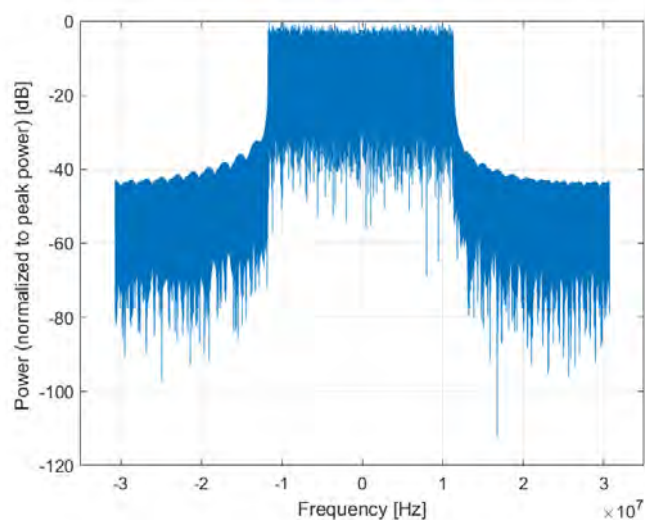
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Name:	5G NR (DFT-s-OFDM, 50% RB, 50 MHz, QPSK, 30 kHz)
Group:	5G NR FR1 TDD
UID:	10914-AAC
PAR: ¹	5.85 dB
MIF: ²	-20.27 dB
Standard Reference:	SPEAG
Category:	Random amplitude modulation
Modulation:	QPSK
Frequency Band:	Band n40 (2300 - 2400 MHz) Band n41 (2496 - 2690 MHz) Band n48 (3550 - 3700 MHz) Band n50 (1432 - 1517 MHz) Band n77 (3300 - 4200 MHz) Band n78 (3300 - 3800 MHz) Band n79 (4400 - 5000 MHz) Band n90 (2496 - 2690 MHz) Band n104 (6425 - 7125 MHz) Validation band (0.0 - 6000.0 MHz)
Detailed Specification:	Multiplexing Scheme: DFT-s-OFDM Modulation Scheme: QPSK Subcarrier Spacing: 30 kHz Number RBs: 64 Slot Format Index: 1 Data Type: PN9
Bandwidth:	50.0 MHz
Integration Time:	10.0 ms

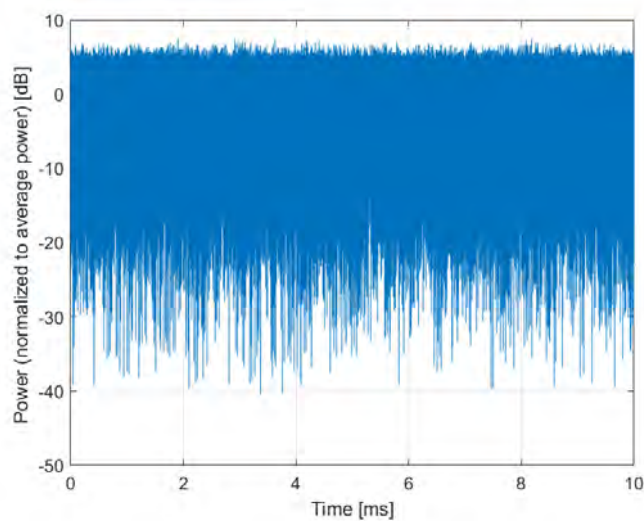
¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



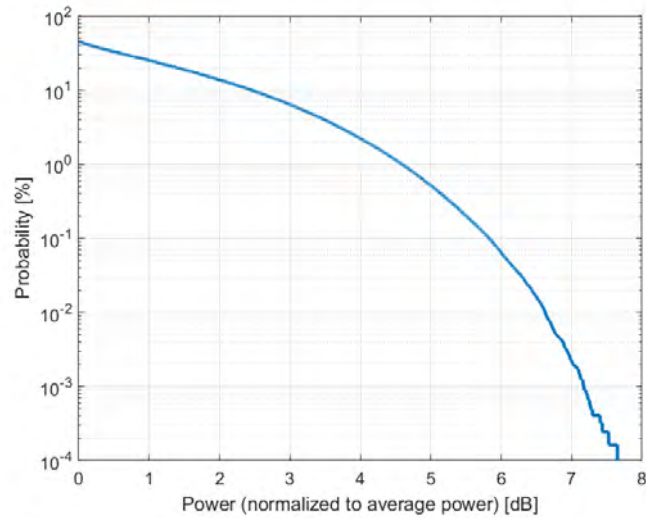
Time Domain

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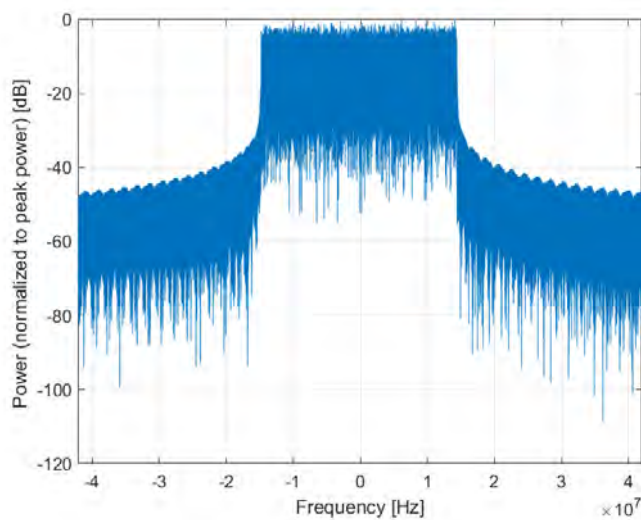
Name:	5G NR (DFT-s-OFDM, 50% RB, 60 MHz, QPSK, 30 kHz)
Group:	5G NR FR1 TDD
UID:	10915-AAD
PAR: ¹	5.83 dB
MIF: ²	-20.44 dB
Standard Reference:	SPEAG
Category:	Random amplitude modulation
Modulation:	QPSK
Frequency Band:	Band n40 (2300 - 2400 MHz) Band n41 (2496 - 2690 MHz) Band n48 (3550 - 3700 MHz) Band n50 (1432 - 1517 MHz) Band n77 (3300 - 4200 MHz) Band n78 (3300 - 3800 MHz) Band n79 (4400 - 5000 MHz) Band n90 (2496 - 2690 MHz) Band n46 (5150 - 5925 MHz) Band n96 (5925 - 7125 MHz) Band n102 (5925 - 6425 MHz) Band n104 (6425 - 7125 MHz) Validation band (0.0 - 6000.0 MHz)
Detailed Specification:	Multiplexing Scheme: DFT-s-OFDM Modulation Scheme: QPSK Subcarrier Spacing: 30 kHz Number RBs: 81 Slot Format Index: 1 Data Type: PN9
Bandwidth:	60.0 MHz
Integration Time:	10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

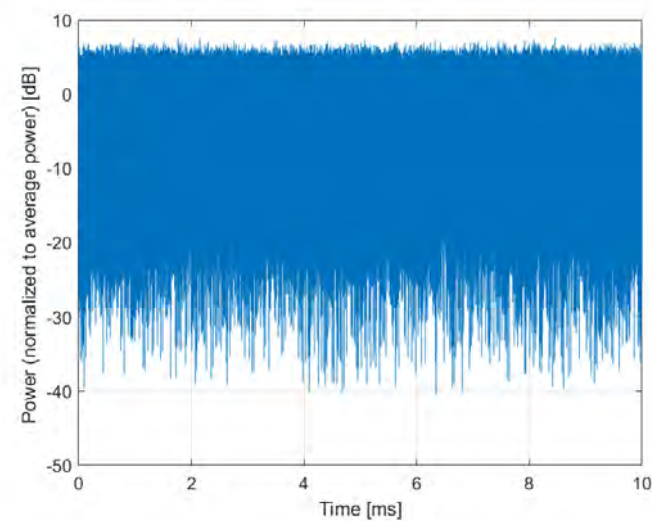
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain

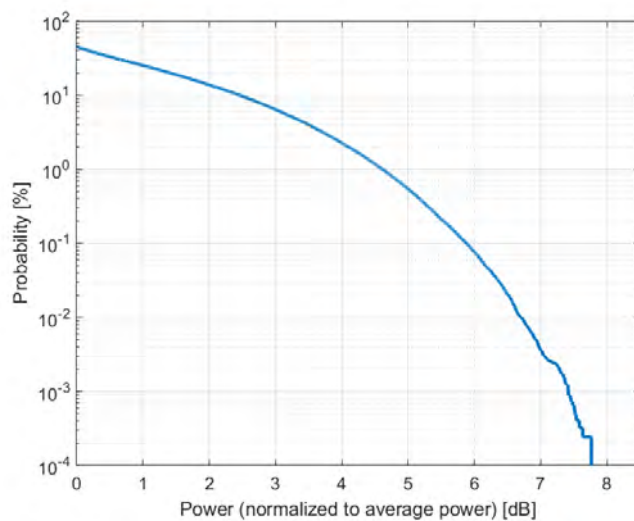


Time Domain

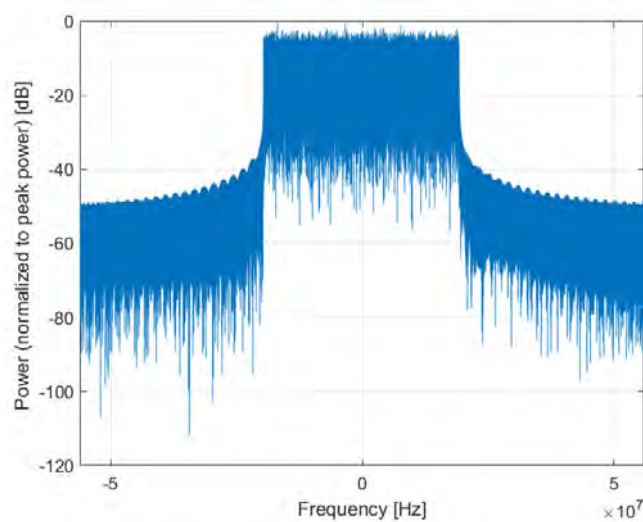
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Name:	5G NR (DFT-s-OFDM, 50% RB, 80 MHz, QPSK, 30 kHz)
Group:	5G NR FR1 TDD
UID:	10916-AAD
PAR: ¹	5.87 dB
MIF: ²	-20.49 dB
Standard Reference:	SPEAG
Category:	Random amplitude modulation
Modulation:	QPSK
Frequency Band:	Band n40 (2300 - 2400 MHz) Band n41 (2496 - 2690 MHz) Band n48 (3550 - 3700 MHz) Band n50 (1432 - 1517 MHz) Band n77 (3300 - 4200 MHz) Band n78 (3300 - 3800 MHz) Band n79 (4400 - 5000 MHz) Band n90 (2496 - 2690 MHz) Band n46 (5150 - 5925 MHz) Band n96 (5925 - 7125 MHz) Band n102 (5925 - 6425 MHz) Band n104 (6425 - 7125 MHz) Validation band (0.0 - 6000.0 MHz)
Detailed Specification:	Multiplexing Scheme: DFT-s-OFDM Modulation Scheme: QPSK Subcarrier Spacing: 30 kHz Number RBs: 108 Slot Format Index: 1 Data Type: PN9
Bandwidth:	80.0 MHz
Integration Time:	10.0 ms

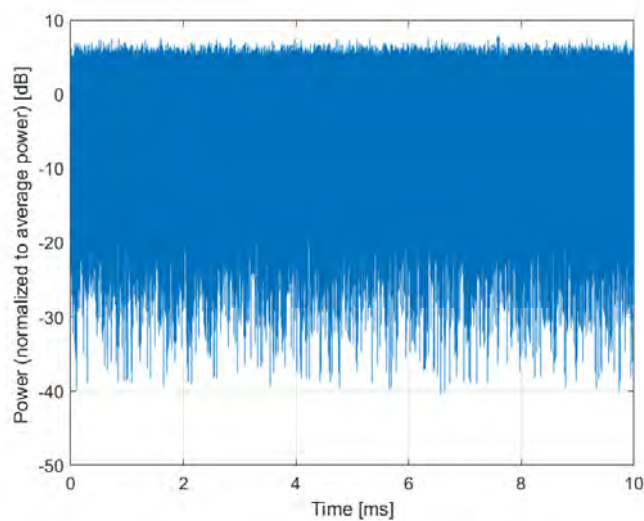
¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



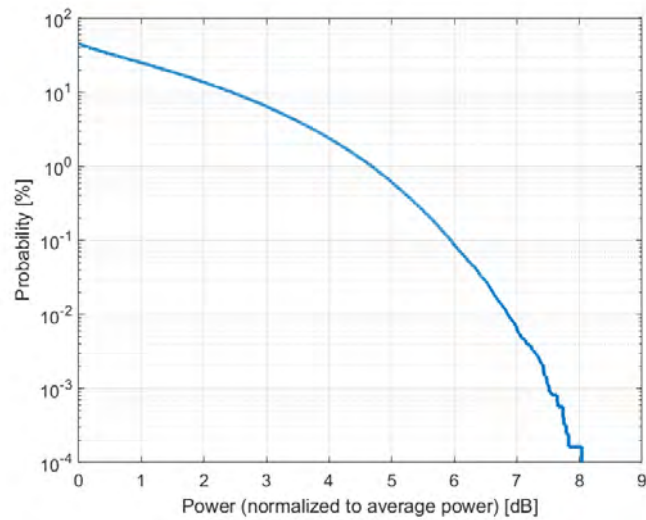
Time Domain

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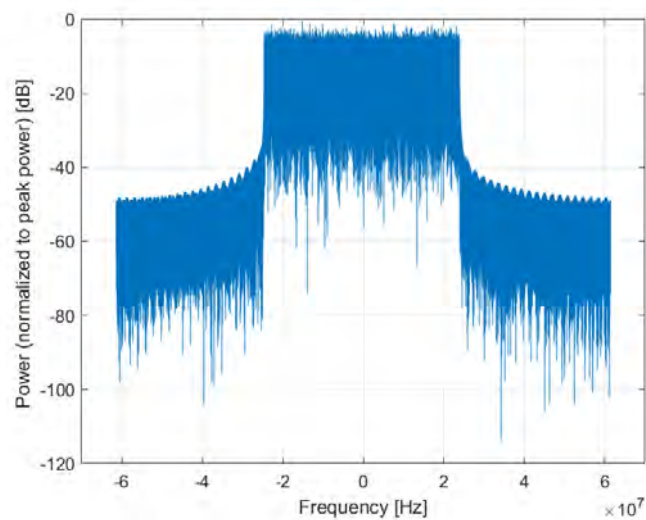
Name:	5G NR (DFT-s-OFDM, 50% RB, 100 MHz, QPSK, 30 kHz)
Group:	5G NR FR1 TDD
UID:	10917-AAD
PAR: ¹	5.94 dB
MIF: ²	-20.29 dB
Standard Reference:	SPEAG
Category:	Random amplitude modulation
Modulation:	QPSK
Frequency Band:	Band n41 (2496 - 2690 MHz) Band n48 (3550 - 3700 MHz) Band n77 (3300 - 4200 MHz) Band n78 (3300 - 3800 MHz) Band n79 (4400 - 5000 MHz) Band n90 (2496 - 2690 MHz) Band n46 (5150 - 5925 MHz) Band n96 (5925 - 7125 MHz) Band n102 (5925 - 6425 MHz) Band n104 (6425 - 7125 MHz) Validation band (0.0 - 6000.0 MHz)
Detailed Specification:	Multiplexing Scheme: DFT-s-OFDM Modulation Scheme: QPSK Subcarrier Spacing: 30 kHz Number RBs: 135 Slot Format Index: 1 Data Type: PN9
Bandwidth:	100.0 MHz
Integration Time:	10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

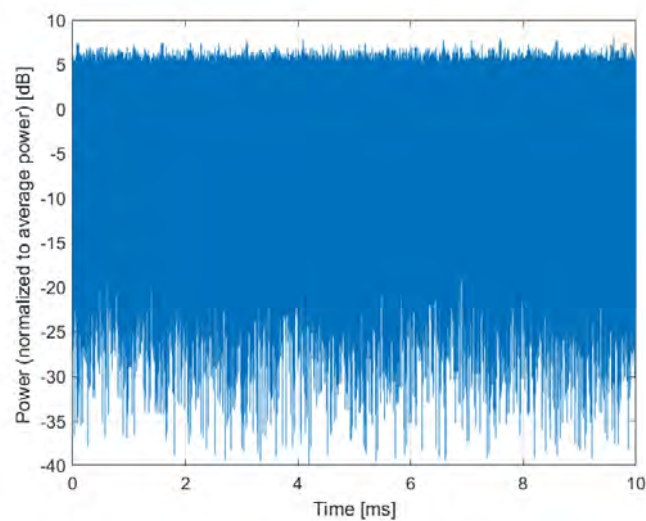
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain

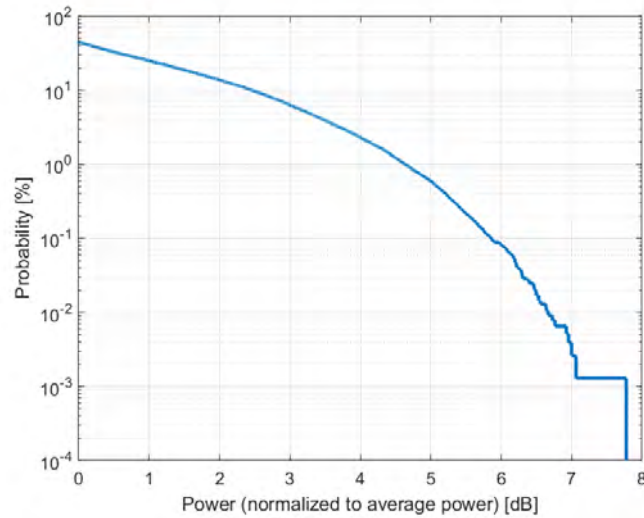


Time Domain

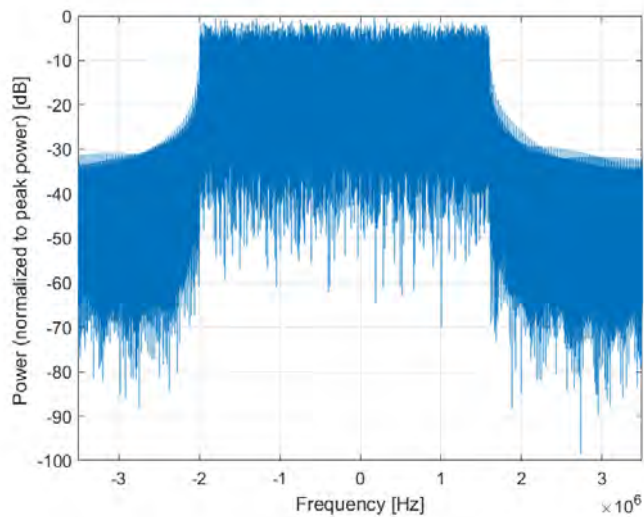
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Name:	5G NR (DFT-s-OFDM, 100% RB, 5 MHz, QPSK, 30 kHz)
Group:	5G NR FR1 TDD
UID:	10918-AAE
PAR: ¹	5.86 dB
MIF: ²	-20.12 dB
Standard Reference:	SPEAG
Category:	Random amplitude modulation
Modulation:	QPSK
Frequency Band:	Band n34 (2010 - 2025 MHz) Band n38 (2570 - 2620 MHz) Band n39 (1880 - 1920 MHz) Band n40 (2300 - 2400 MHz) Band n48 (3550 - 3700 MHz) Band n50 (1432 - 1517 MHz) Band n51 (1427 - 1432 MHz) Band n53 (2483.5 - 2495 MHz) Band n101 (1900 - 1910 MHz) Validation band (0.0 - 6000.0 MHz)
Detailed Specification:	Multiplexing Scheme: DFT-s-OFDM Modulation Scheme: QPSK Subcarrier Spacing: 30 kHz Number RBs: 10 Slot Format Index: 1 Data Type: PN9
Bandwidth:	5.0 MHz
Integration Time:	10.0 ms

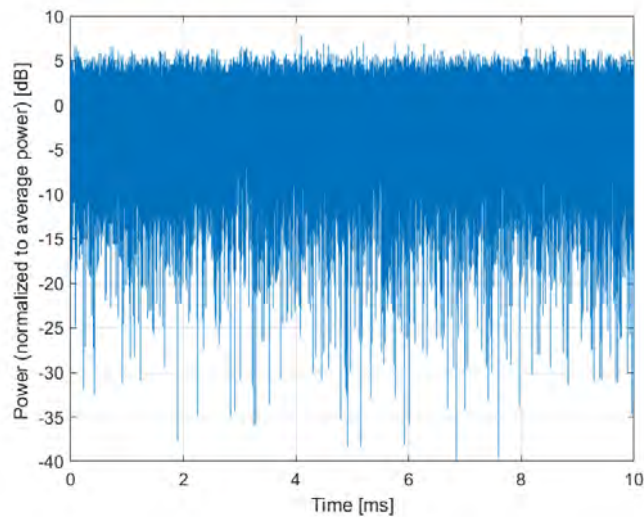
¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain

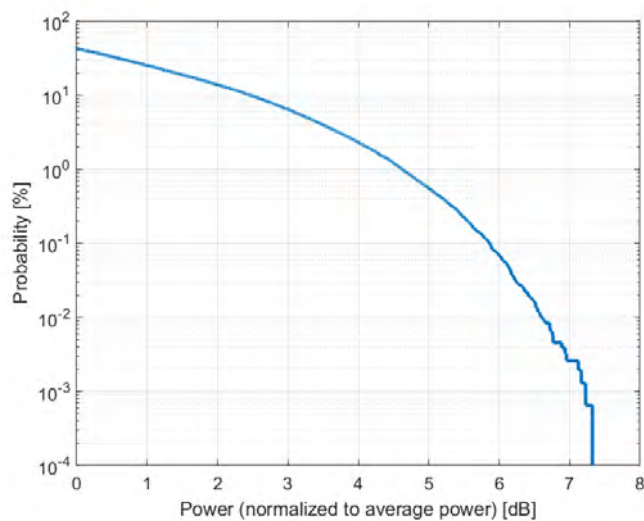


Time Domain

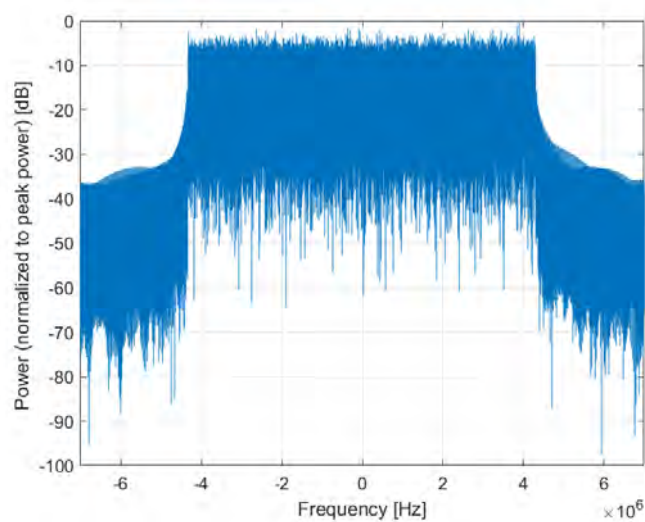
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Name:	5G NR (DFT-s-OFDM, 100% RB, 10 MHz, QPSK, 30 kHz)
Group:	5G NR FR1 TDD
UID:	10919-AAC
PAR: ¹	5.86 dB
MIF: ²	-20.43 dB
Standard Reference:	SPEAG
Category:	Random amplitude modulation
Modulation:	QPSK
Frequency Band:	Band n34 (2010 - 2025 MHz) Band n38 (2570 - 2620 MHz) Band n39 (1880 - 1920 MHz) Band n40 (2300 - 2400 MHz) Band n41 (2496 - 2690 MHz) Band n48 (3550 - 3700 MHz) Band n50 (1432 - 1517 MHz) Band n77 (3300 - 4200 MHz) Band n78 (3300 - 3800 MHz) Band n53 (2483.5 - 2495 MHz) Band n90 (2496 - 2690 MHz) Band n47 (5855 - 5925 MHz) Band n46 (5150 - 5925 MHz) Band n101 (1900 - 1910 MHz) Validation band (0.0 - 6000.0 MHz)
Detailed Specification:	Multiplexing Scheme: DFT-s-OFDM Modulation Scheme: QPSK Subcarrier Spacing: 30 kHz Number RBs: 24 Slot Format Index: 1 Data Type: PN9
Bandwidth:	10.0 MHz
Integration Time:	10.0 ms

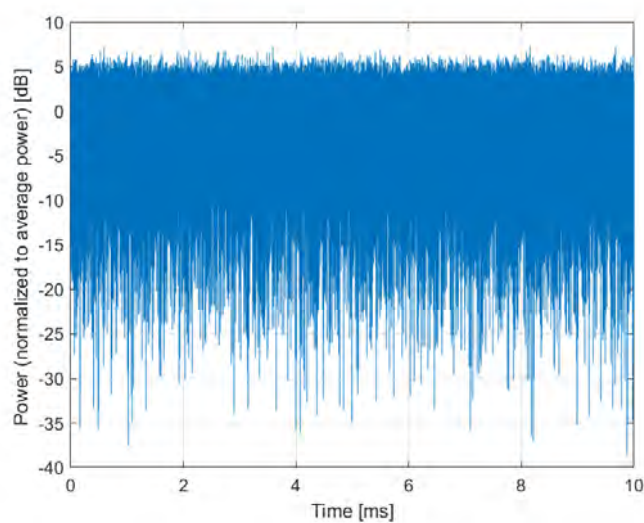
¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain

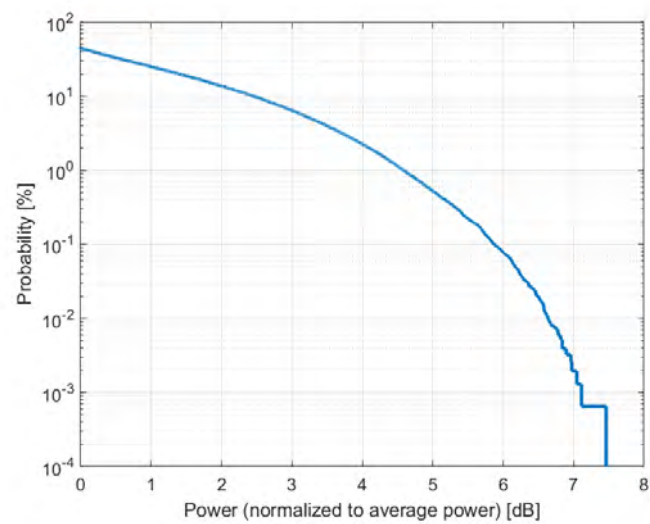


Time Domain

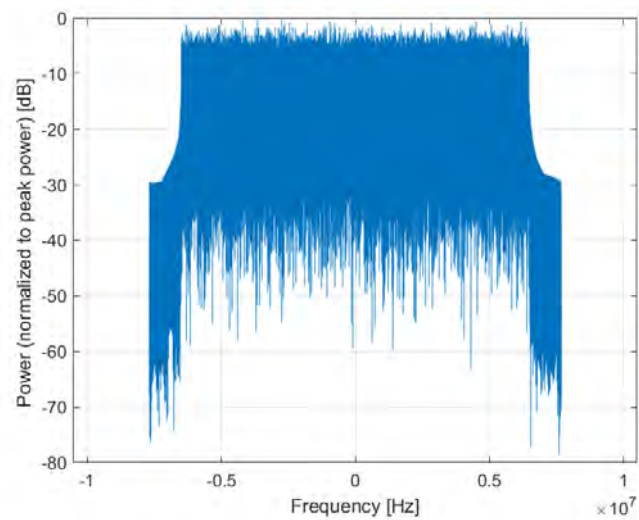
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Name:	5G NR (DFT-s-OFDM, 100% RB, 15 MHz, QPSK, 30 kHz)
Group:	5G NR FR1 TDD
UID:	10920-AAB
PAR: ¹	5.87 dB
MIF: ²	-20.38 dB
Standard Reference:	SPEAG
Category:	Random amplitude modulation
Modulation:	QPSK
Frequency Band:	Band n34 (2010 - 2025 MHz) Band n38 (2570 - 2620 MHz) Band n39 (1880 - 1920 MHz) Band n40 (2300 - 2400 MHz) Band n41 (2496 - 2690 MHz) Band n48 (3550 - 3700 MHz) Band n50 (1432 - 1517 MHz) Band n77 (3300 - 4200 MHz) Band n78 (3300 - 3800 MHz) Band n90 (2496 - 2690 MHz) Validation band (0.0 - 6000.0 MHz)
Detailed Specification:	Multiplexing Scheme: DFT-s-OFDM Modulation Scheme: QPSK Subcarrier Spacing: 30 kHz Number RBs: 36 Slot Format Index: 1 Data Type: PN9
Bandwidth:	15.0 MHz
Integration Time:	10.0 ms

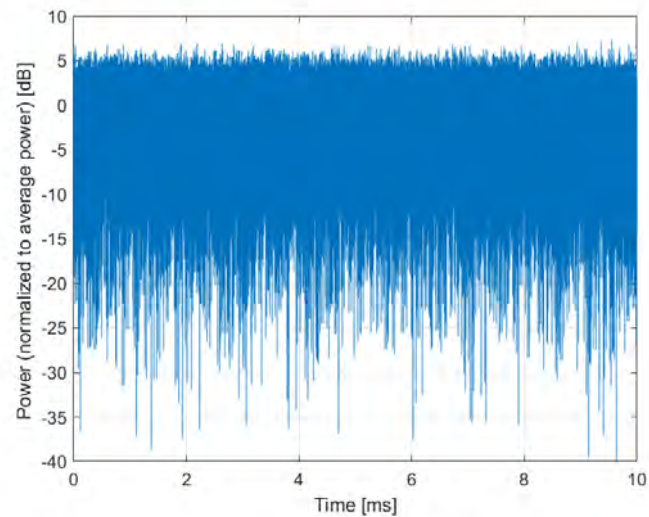
¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain

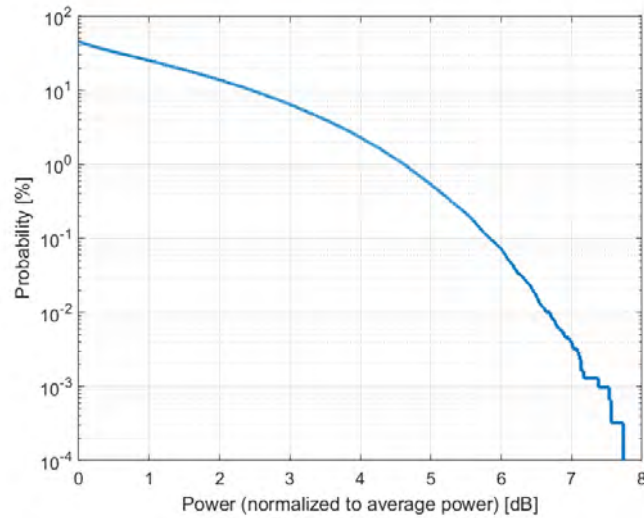


Time Domain

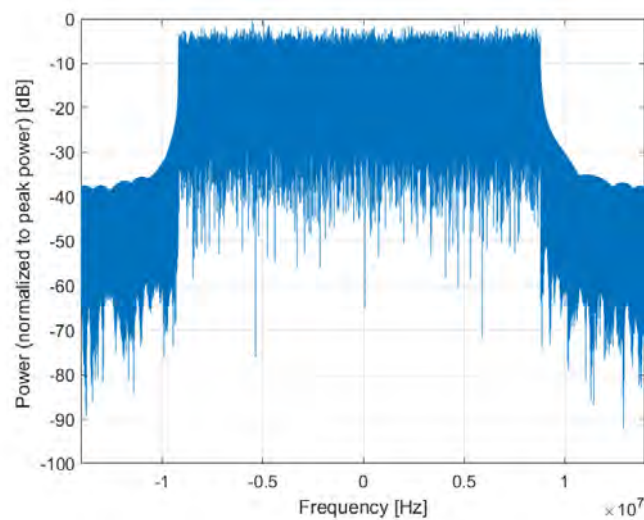
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Name:	5G NR (DFT-s-OFDM, 100% RB, 20 MHz, QPSK, 30 kHz)
Group:	5G NR FR1 TDD
UID:	10921-AAC
PAR: ¹	5.84 dB
MIF: ²	-20.14 dB
Standard Reference:	SPEAG
Category:	Random amplitude modulation
Modulation:	QPSK
Frequency Band:	Band n38 (2570 - 2620 MHz) Band n39 (1880 - 1920 MHz) Band n40 (2300 - 2400 MHz) Band n41 (2496 - 2690 MHz) Band n48 (3550 - 3700 MHz) Band n50 (1432 - 1517 MHz) Band n77 (3300 - 4200 MHz) Band n78 (3300 - 3800 MHz) Band n90 (2496 - 2690 MHz) Band n47 (5855 - 5925 MHz) Band n46 (5150 - 5925 MHz) Band n96 (5925 - 7125 MHz) Band n102 (5925 - 6425 MHz) Band n104 (6425 - 7125 MHz) Validation band (0.0 - 6000.0 MHz)
Detailed Specification:	Multiplexing Scheme: DFT-s-OFDM Modulation Scheme: QPSK Subcarrier Spacing: 30 kHz Number RBs: 50 Slot Format Index: 1 Data Type: PN9
Bandwidth:	20.0 MHz
Integration Time:	10.0 ms

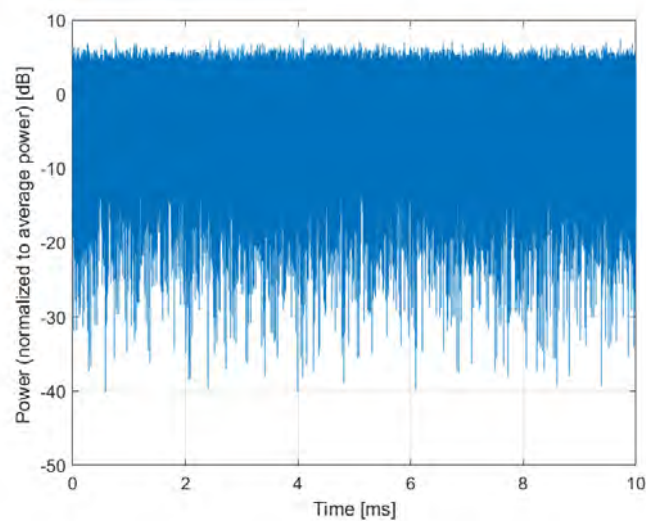
¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



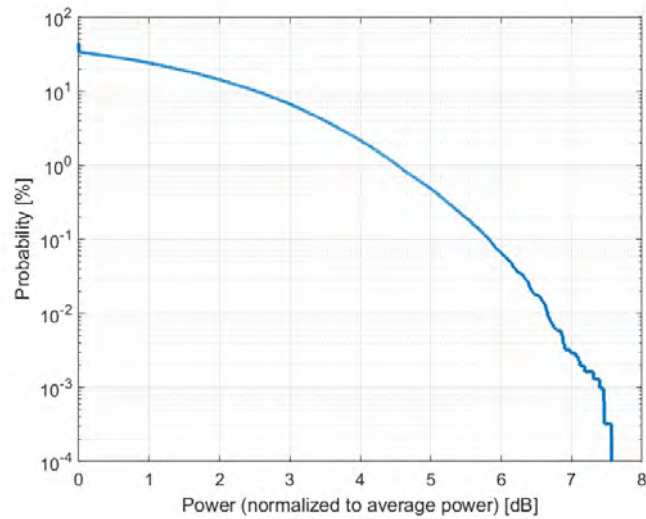
Time Domain

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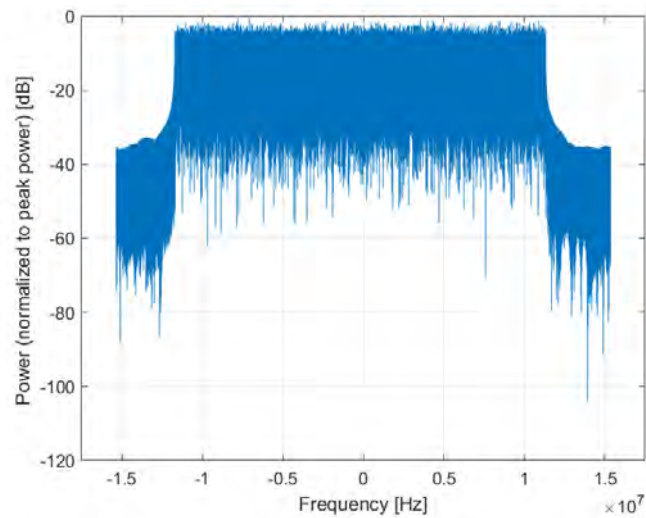
Name:	5G NR (DFT-s-OFDM, 100% RB, 25 MHz, QPSK, 30 kHz)
Group:	5G NR FR1 TDD
UID:	10922-AAB
PAR: ¹	5.82 dB
MIF: ²	-20.26 dB
Standard Reference:	SPEAG
Category:	Random amplitude modulation
Modulation:	QPSK
Frequency Band:	Band n38 (2570 - 2620 MHz) Band n39 (1880 - 1920 MHz) Band n40 (2300 - 2400 MHz) Band n77 (3300 - 4200 MHz) Band n78 (3300 - 3800 MHz) Validation band (0.0 - 6000.0 MHz)
Detailed Specification:	Multiplexing Scheme: DFT-s-OFDM Modulation Scheme: QPSK Subcarrier Spacing: 30 kHz Number RBs: 64 Slot Format Index: 1 Data Type: PN9
Bandwidth:	25.0 MHz
Integration Time:	10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

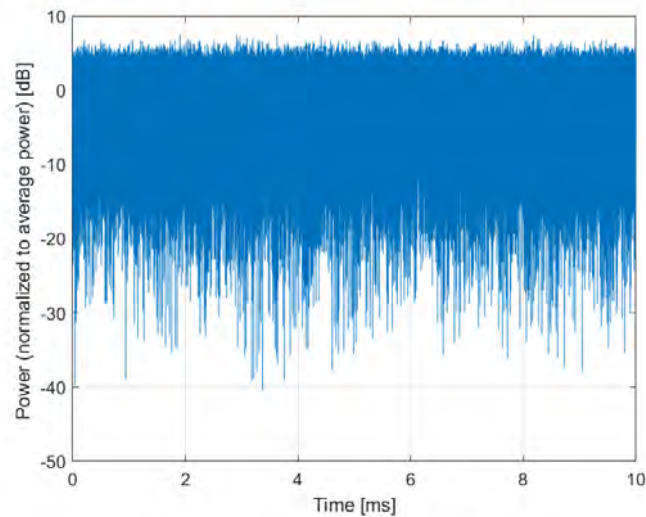
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



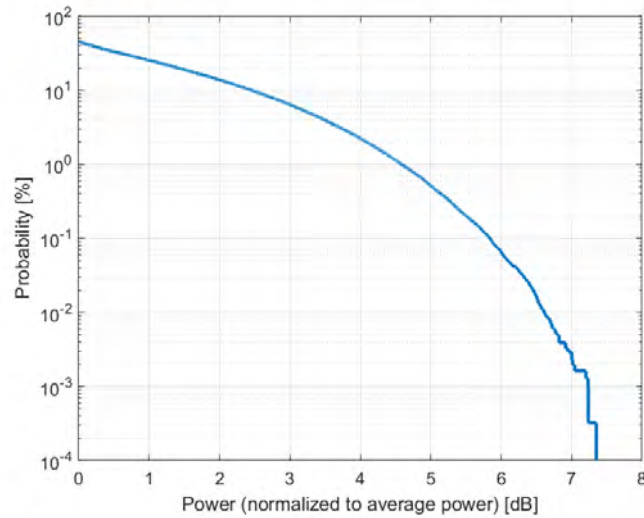
Time Domain

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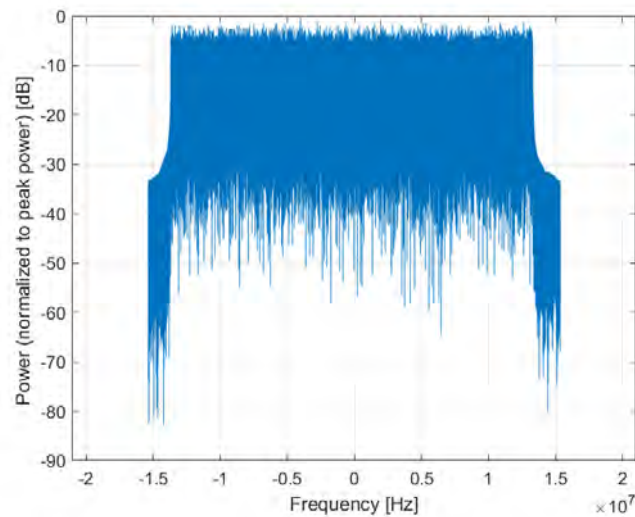
Name:	5G NR (DFT-s-OFDM, 100% RB, 30 MHz, QPSK, 30 kHz)
Group:	5G NR FR1 TDD
UID:	10923-AAC
PAR: ¹	5.84 dB
MIF: ²	-20.39 dB
Standard Reference:	SPEAG
Category:	Random amplitude modulation
Modulation:	QPSK
Frequency Band:	Band n38 (2570 - 2620 MHz) Band n39 (1880 - 1920 MHz) Band n40 (2300 - 2400 MHz) Band n41 (2496 - 2690 MHz) Band n50 (1432 - 1517 MHz) Band n77 (3300 - 4200 MHz) Band n78 (3300 - 3800 MHz) Band n90 (2496 - 2690 MHz) Band n47 (5855 - 5925 MHz) Band n104 (6425 - 7125 MHz) Validation band (0.0 - 6000.0 MHz)
Detailed Specification:	Multiplexing Scheme: DFT-s-OFDM Modulation Scheme: QPSK Subcarrier Spacing: 30 kHz Number RBs: 75 Slot Format Index: 1 Data Type: PN9
Bandwidth:	30.0 MHz
Integration Time:	10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

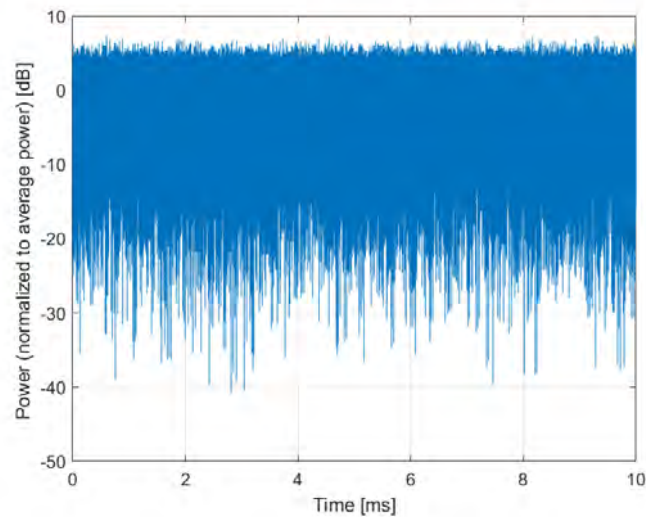
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



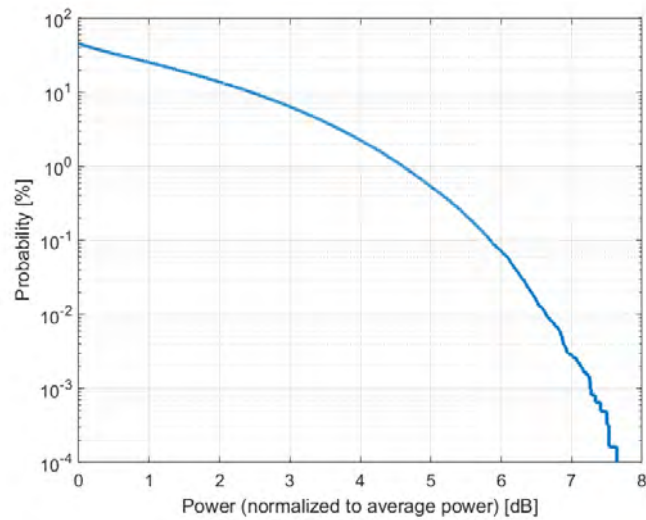
Time Domain

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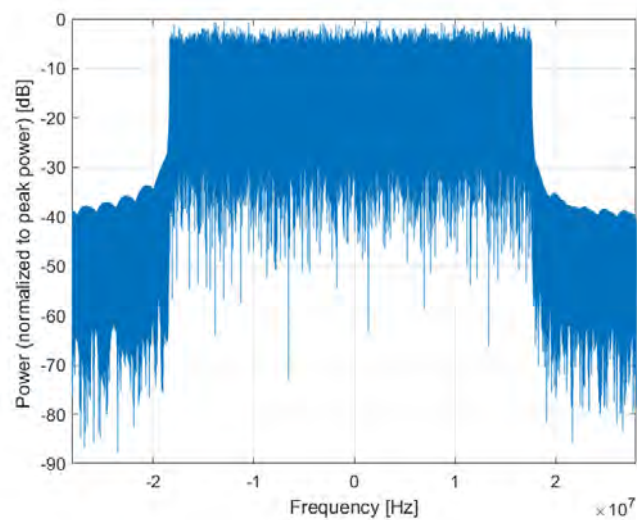
Name:	5G NR (DFT-s-OFDM, 100% RB, 40 MHz, QPSK, 30 kHz)
Group:	5G NR FR1 TDD
UID:	10924-AAD
PAR: ¹	5.84 dB
MIF: ²	-20.45 dB
Standard Reference:	SPEAG
Category:	Random amplitude modulation
Modulation:	QPSK
Frequency Band:	Band n38 (2570 - 2620 MHz) Band n39 (1880 - 1920 MHz) Band n40 (2300 - 2400 MHz) Band n41 (2496 - 2690 MHz) Band n48 (3550 - 3700 MHz) Band n50 (1432 - 1517 MHz) Band n77 (3300 - 4200 MHz) Band n78 (3300 - 3800 MHz) Band n79 (4400 - 5000 MHz) Band n90 (2496 - 2690 MHz) Band n47 (5855 - 5925 MHz) Band n46 (5150 - 5925 MHz) Band n96 (5925 - 7125 MHz) Band n102 (5925 - 6425 MHz) Band n104 (6425 - 7125 MHz) Validation band (0.0 - 6000.0 MHz)
Detailed Specification:	Multiplexing Scheme: DFT-s-OFDM Modulation Scheme: QPSK Subcarrier Spacing: 30 kHz Number RBs: 100 Slot Format Index: 1 Data Type: PN9
Bandwidth:	40.0 MHz
Integration Time:	10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

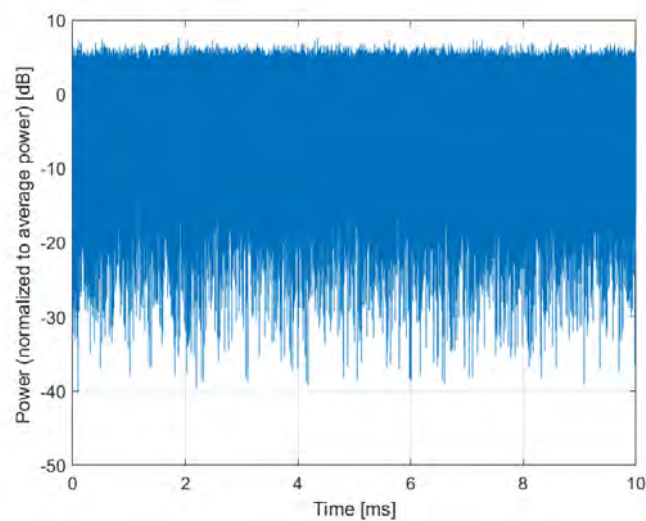
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



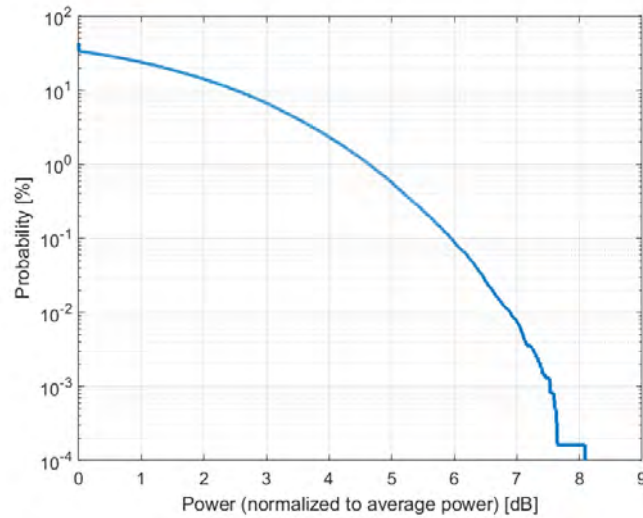
Time Domain

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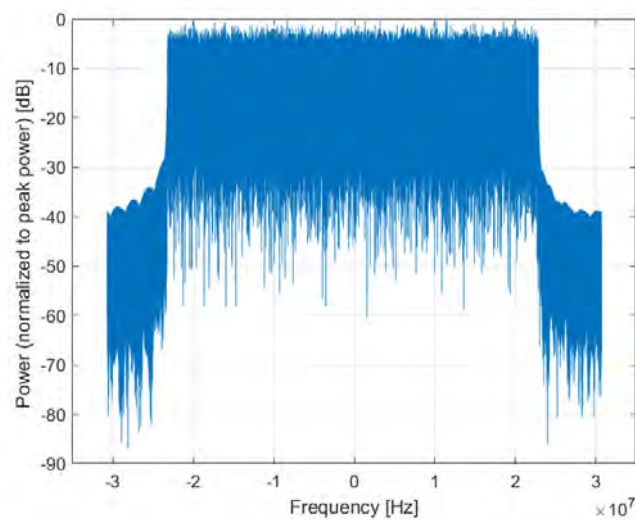
Name:	5G NR (DFT-s-OFDM, 100% RB, 50 MHz, QPSK, 30 kHz)
Group:	5G NR FR1 TDD
UID:	10925-AAC
PAR: ¹	5.95 dB
MIF: ²	-20.23 dB
Standard Reference:	SPEAG
Category:	Random amplitude modulation
Modulation:	QPSK
Frequency Band:	Band n40 (2300 - 2400 MHz) Band n41 (2496 - 2690 MHz) Band n48 (3550 - 3700 MHz) Band n50 (1432 - 1517 MHz) Band n77 (3300 - 4200 MHz) Band n78 (3300 - 3800 MHz) Band n79 (4400 - 5000 MHz) Band n90 (2496 - 2690 MHz) Band n104 (6425 - 7125 MHz) Validation band (0.0 - 6000.0 MHz)
Detailed Specification:	Multiplexing Scheme: DFT-s-OFDM Modulation Scheme: QPSK Subcarrier Spacing: 30 kHz Number RBs: 128 Slot Format Index: 1 Data Type: PN9
Bandwidth:	50.0 MHz
Integration Time:	10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

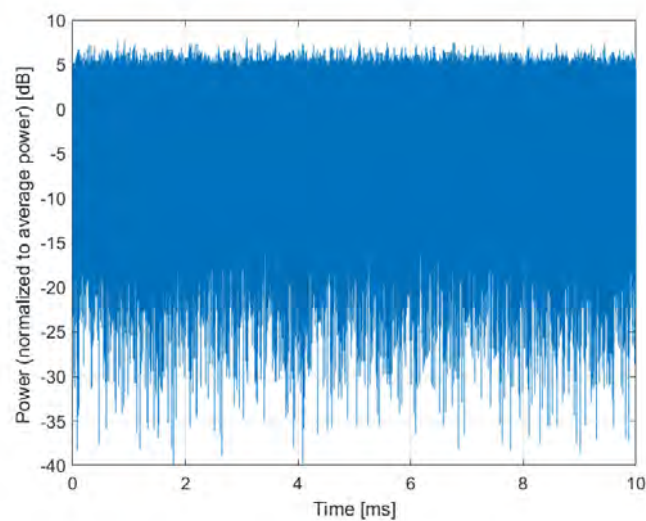
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain

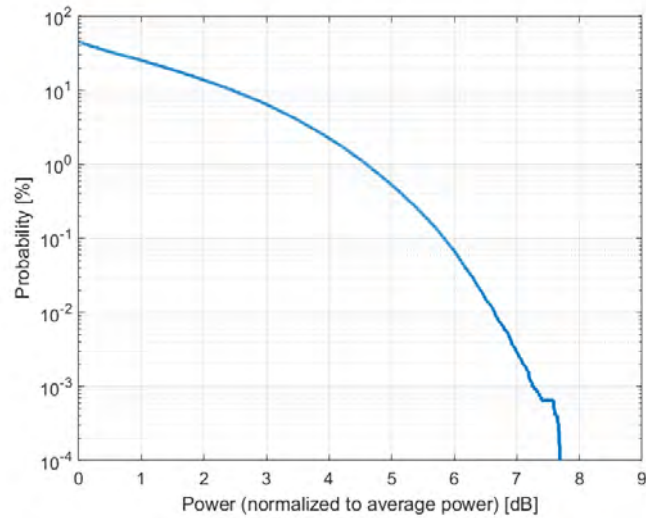


Time Domain

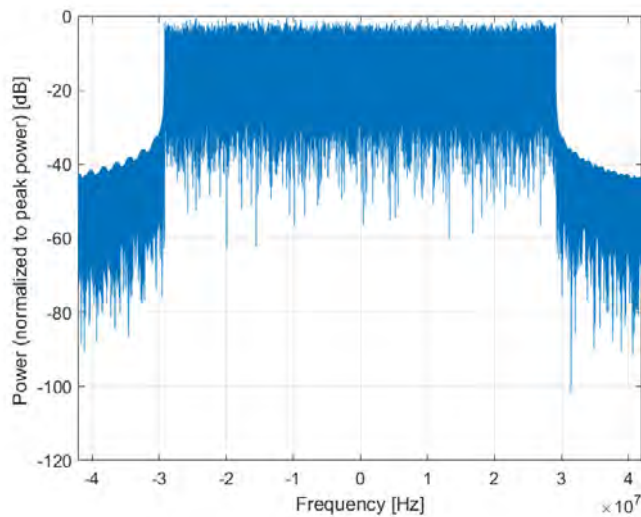
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Name:	5G NR (DFT-s-OFDM, 100% RB, 60 MHz, QPSK, 30 kHz)
Group:	5G NR FR1 TDD
UID:	10926-AAD
PAR: ¹	5.84 dB
MIF: ²	-20.48 dB
Standard Reference:	SPEAG
Category:	Random amplitude modulation
Modulation:	QPSK
Frequency Band:	Band n40 (2300 - 2400 MHz) Band n41 (2496 - 2690 MHz) Band n48 (3550 - 3700 MHz) Band n50 (1432 - 1517 MHz) Band n77 (3300 - 4200 MHz) Band n78 (3300 - 3800 MHz) Band n79 (4400 - 5000 MHz) Band n90 (2496 - 2690 MHz) Band n46 (5150 - 5925 MHz) Band n96 (5925 - 7125 MHz) Band n102 (5925 - 6425 MHz) Band n104 (6425 - 7125 MHz) Validation band (0.0 - 6000.0 MHz)
Detailed Specification:	Multiplexing Scheme: DFT-s-OFDM Modulation Scheme: QPSK Subcarrier Spacing: 30 kHz Number RBs: 162 Slot Format Index: 1 Data Type: PN9
Bandwidth:	60.0 MHz
Integration Time:	10.0 ms

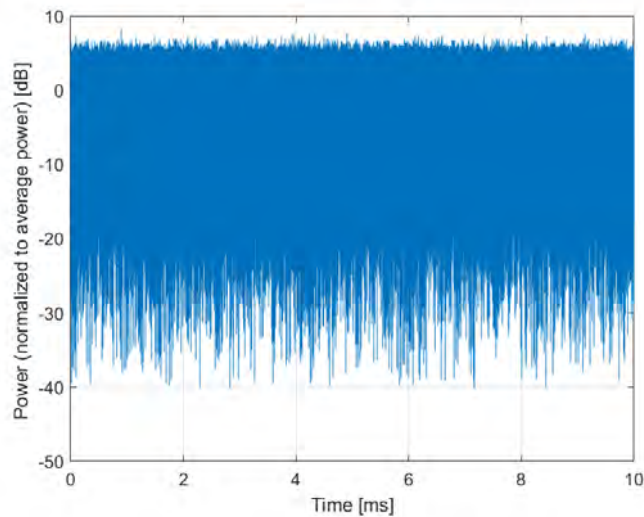
¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



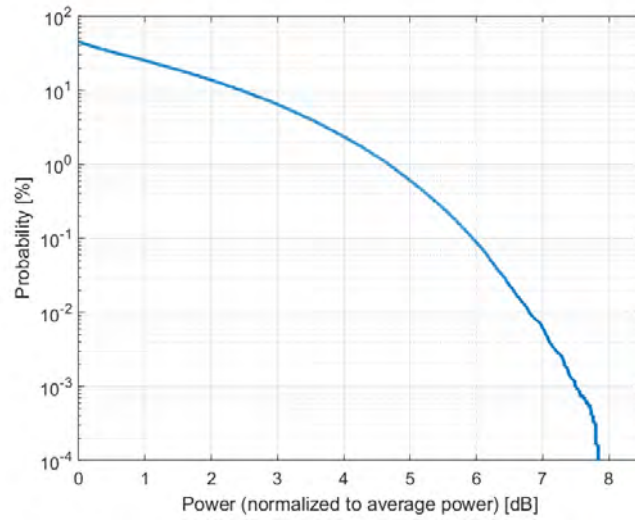
Time Domain

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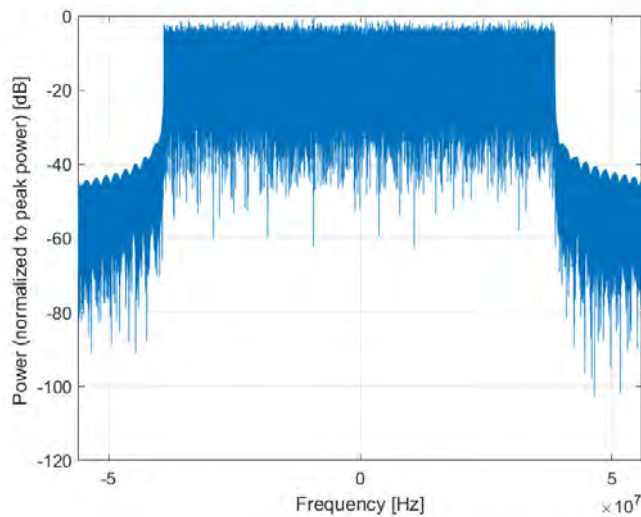
Name:	5G NR (DFT-s-OFDM, 100% RB, 80 MHz, QPSK, 30 kHz)
Group:	5G NR FR1 TDD
UID:	10927-AAD
PAR: ¹	5.94 dB
MIF: ²	-20.32 dB
Standard Reference:	SPEAG
Category:	Random amplitude modulation
Modulation:	QPSK
Frequency Band:	Band n40 (2300 - 2400 MHz) Band n41 (2496 - 2690 MHz) Band n48 (3550 - 3700 MHz) Band n50 (1432 - 1517 MHz) Band n77 (3300 - 4200 MHz) Band n78 (3300 - 3800 MHz) Band n79 (4400 - 5000 MHz) Band n90 (2496 - 2690 MHz) Band n46 (5150 - 5925 MHz) Band n96 (5925 - 7125 MHz) Band n102 (5925 - 6425 MHz) Band n104 (6425 - 7125 MHz) Validation band (0.0 - 6000.0 MHz)
Detailed Specification:	Multiplexing Scheme: DFT-s-OFDM Modulation Scheme: QPSK Subcarrier Spacing: 30 kHz Number RBs: 216 Slot Format Index: 1 Data Type: PN9
Bandwidth:	80.0 MHz
Integration Time:	10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

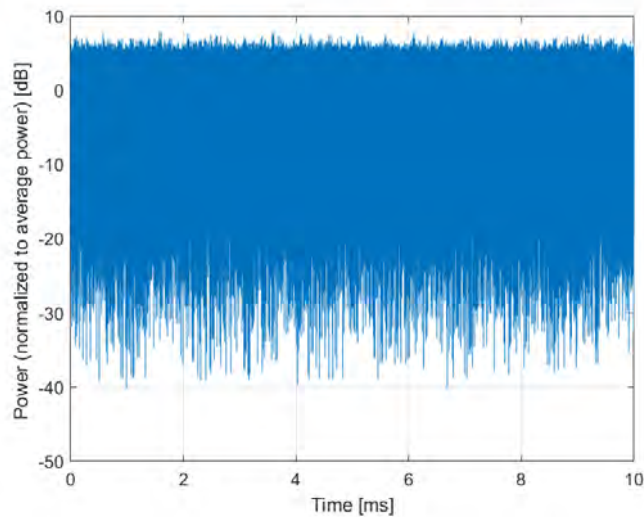
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



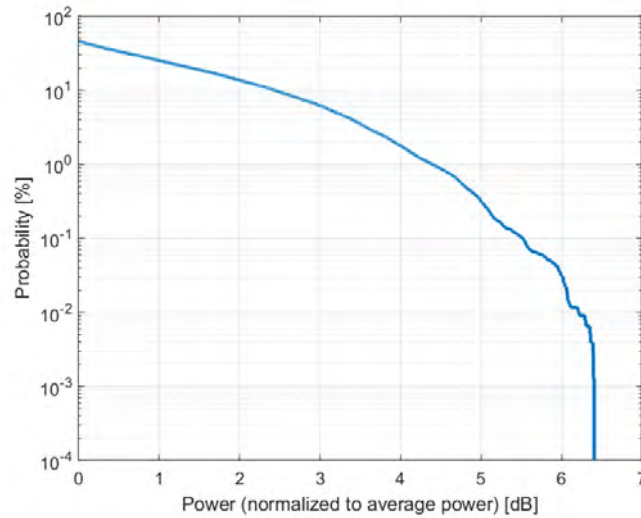
Time Domain

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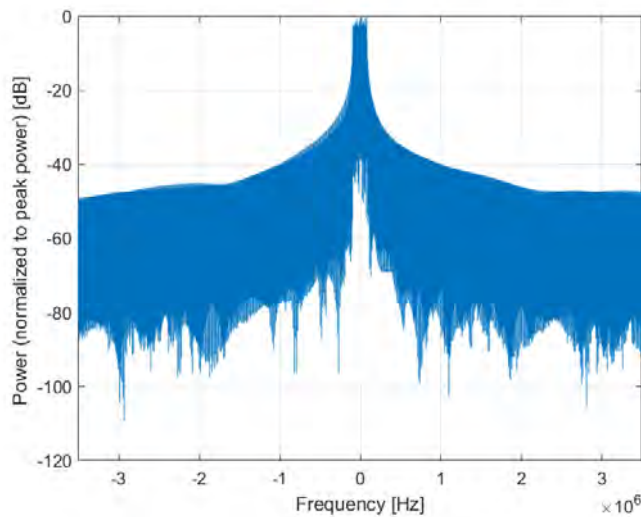
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Name:	5G NR (DFT-s-OFDM, 1 RB, 5 MHz, QPSK, 15 kHz)
Group:	5G NR FR1 FDD
UID:	10928-AAD
PAR: ¹	5.52 dB
MIF: ²	-15.06 dB
Standard Reference:	SPEAG
Category:	Random amplitude modulation
Modulation:	QPSK
Frequency Band:	Band n2 (1850 - 1910 MHz) Band n5 (824 - 849 MHz) Band n25 (1850 - 1915 MHz) Band n66 (1710 - 1780 MHz) Band n71 (663 - 698 MHz) Band n1 (1920 - 1980 MHz) Band n3 (1710 - 1785 MHz) Band n7 (2500 - 2570 MHz) Band n8 (880 - 915 MHz) Band n12 (699 - 716 MHz) Band n14 (788 - 798 MHz) Band n18 (815 - 830 MHz) Band n20 (832 - 862 MHz) Band n26 (814 - 849 MHz) Band n28 (703 - 748 MHz) Band n30 (2305 - 2315 MHz) Band n65 (1920 - 2010 MHz) Band n70 (1695 - 1710 MHz) Band n74 (1427 - 1470 MHz) Band n91 (832 - 862 MHz) Band n92 (832 - 862 MHz) Band n93 (880 - 915 MHz) Band n94 (880 - 915 MHz) Band n80 (1710 - 1785 MHz) Band n81 (880 - 915 MHz) Band n82 (832 - 862 MHz) Band n83 (703 - 748 MHz) Band n84 (1920 - 1980 MHz) Band n86 (1710 - 1780 MHz) Band n89 (824 - 849 MHz) Band n95 (2010 - 2025 MHz) Band n24 (1626.5 - 1660.5 MHz) Band n97 (2300 - 2400 MHz) Band n98 (1880 - 1920 MHz) Band n99 (1626.5 - 1660.5 MHz) Band n13 (777 - 787 MHz) Band n100 (874.4 - 880 MHz) Validation band (0.0 - 6000.0 MHz)
Detailed Specification:	Multiplexing Scheme: DFT-s-OFDM Modulation Scheme: QPSK Subcarrier Spacing: 15 kHz Number RBs: 1 Data Type: PN9
Bandwidth:	5.0 MHz
Integration Time:	10.0 ms

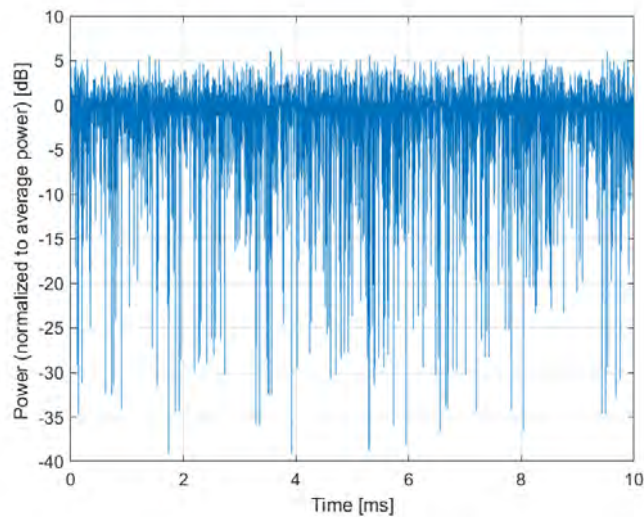
¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



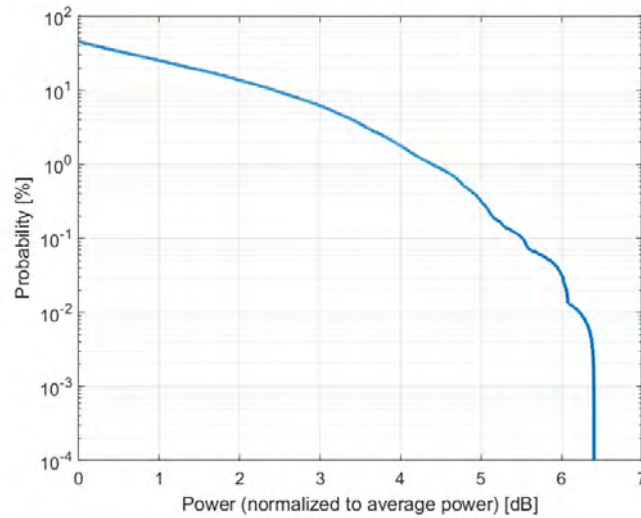
Time Domain

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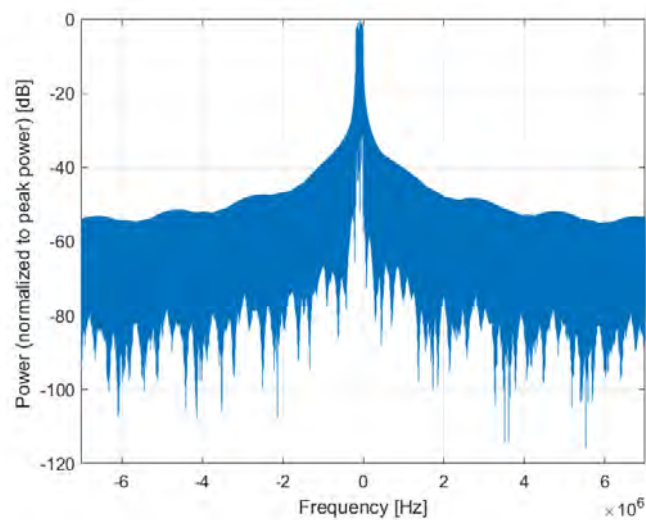
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Name:	5G NR (DFT-s-OFDM, 1 RB, 10 MHz, QPSK, 15 kHz)
Group:	5G NR FR1 FDD
UID:	10929-AAD
PAR: ¹	5.52 dB
MIF: ²	-15.06 dB
Standard Reference:	SPEAG
Category:	Random amplitude modulation
Modulation:	QPSK
Frequency Band:	Band n2 (1850 - 1910 MHz) Band n5 (824 - 849 MHz) Band n25 (1850 - 1915 MHz) Band n66 (1710 - 1780 MHz) Band n71 (663 - 698 MHz) Band n1 (1920 - 1980 MHz) Band n3 (1710 - 1785 MHz) Band n7 (2500 - 2570 MHz) Band n8 (880 - 915 MHz) Band n12 (699 - 716 MHz) Band n14 (788 - 798 MHz) Band n18 (815 - 830 MHz) Band n20 (832 - 862 MHz) Band n26 (814 - 849 MHz) Band n28 (703 - 748 MHz) Band n30 (2305 - 2315 MHz) Band n65 (1920 - 2010 MHz) Band n70 (1695 - 1710 MHz) Band n74 (1427 - 1470 MHz) Band n91 (832 - 862 MHz) Band n92 (832 - 862 MHz) Band n93 (880 - 915 MHz) Band n94 (880 - 915 MHz) Band n80 (1710 - 1785 MHz) Band n81 (880 - 915 MHz) Band n82 (832 - 862 MHz) Band n83 (703 - 748 MHz) Band n84 (1920 - 1980 MHz) Band n86 (1710 - 1780 MHz) Band n89 (824 - 849 MHz) Band n95 (2010 - 2025 MHz) Band n24 (1626.5 - 1660.5 MHz) Band n97 (2300 - 2400 MHz) Band n98 (1880 - 1920 MHz) Band n99 (1626.5 - 1660.5 MHz) Band n13 (777 - 787 MHz) Validation band (0.0 - 6000.0 MHz)
Detailed Specification:	Multiplexing Scheme: DFT-s-OFDM Modulation Scheme: QPSK Subcarrier Spacing: 15 kHz Number RBs: 1 Data Type: PN9
Bandwidth:	10.0 MHz
Integration Time:	10.0 ms

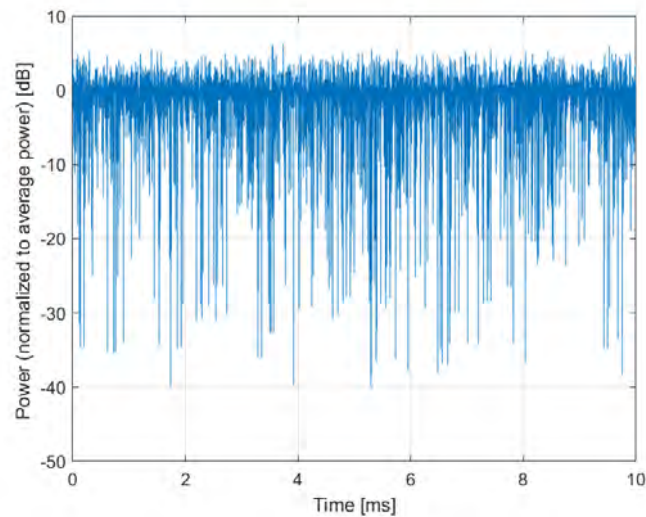
¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



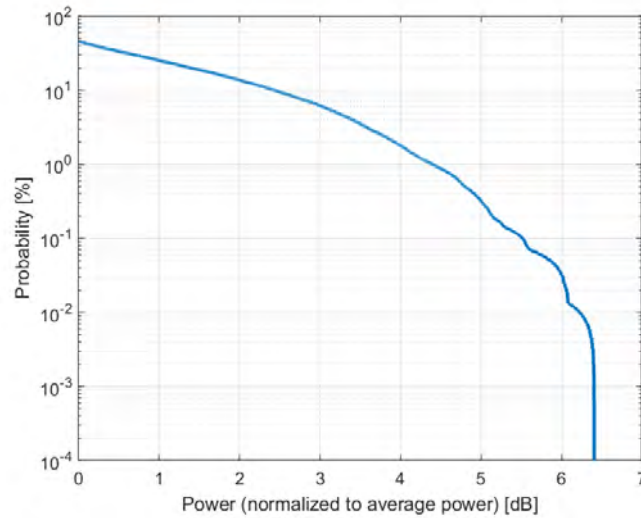
Time Domain

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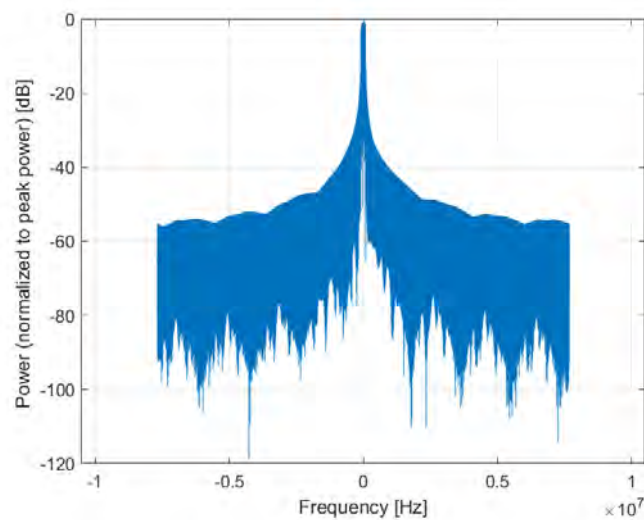
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Name:	5G NR (DFT-s-OFDM, 1 RB, 15 MHz, QPSK, 15 kHz)
Group:	5G NR FR1 FDD
UID:	10930-AAC
PAR: ¹	5.52 dB
MIF: ²	-15.06 dB
Standard Reference:	SPEAG
Category:	Random amplitude modulation
Modulation:	QPSK
Frequency Band:	Band n2 (1850 - 1910 MHz) Band n5 (824 - 849 MHz) Band n25 (1850 - 1915 MHz) Band n66 (1710 - 1780 MHz) Band n71 (663 - 698 MHz) Band n1 (1920 - 1980 MHz) Band n3 (1710 - 1785 MHz) Band n7 (2500 - 2570 MHz) Band n8 (880 - 915 MHz) Band n12 (699 - 716 MHz) Band n18 (815 - 830 MHz) Band n20 (832 - 862 MHz) Band n26 (814 - 849 MHz) Band n28 (703 - 748 MHz) Band n65 (1920 - 2010 MHz) Band n70 (1695 - 1710 MHz) Band n74 (1427 - 1470 MHz) Band n92 (832 - 862 MHz) Band n94 (880 - 915 MHz) Band n80 (1710 - 1785 MHz) Band n81 (880 - 915 MHz) Band n82 (832 - 862 MHz) Band n83 (703 - 748 MHz) Band n84 (1920 - 1980 MHz) Band n86 (1710 - 1780 MHz) Band n89 (824 - 849 MHz) Band n95 (2010 - 2025 MHz) Band n97 (2300 - 2400 MHz) Band n98 (1880 - 1920 MHz) Validation band (0.0 - 6000.0 MHz)
Detailed Specification:	Multiplexing Scheme: DFT-s-OFDM Modulation Scheme: QPSK Subcarrier Spacing: 15 kHz Number RBs: 1 Data Type: PN9
Bandwidth:	15.0 MHz
Integration Time:	10.0 ms

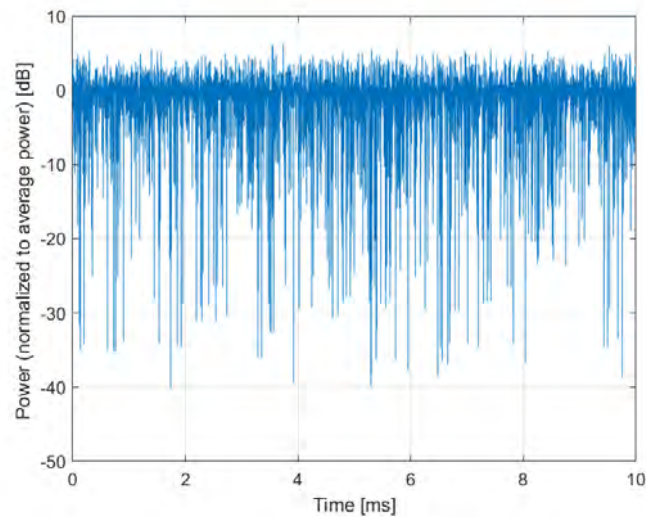
¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



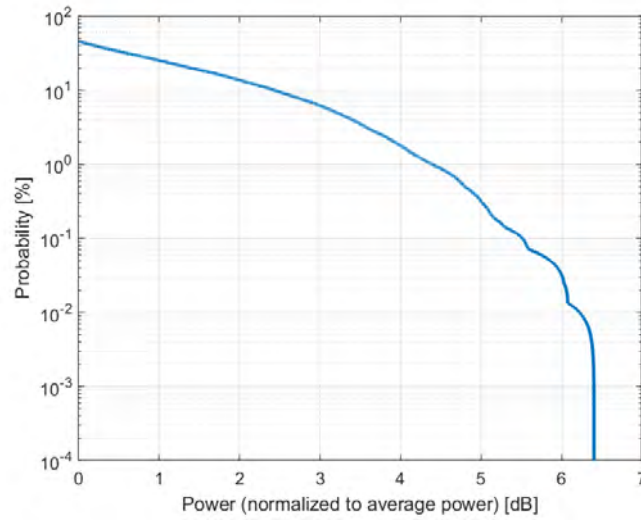
Time Domain

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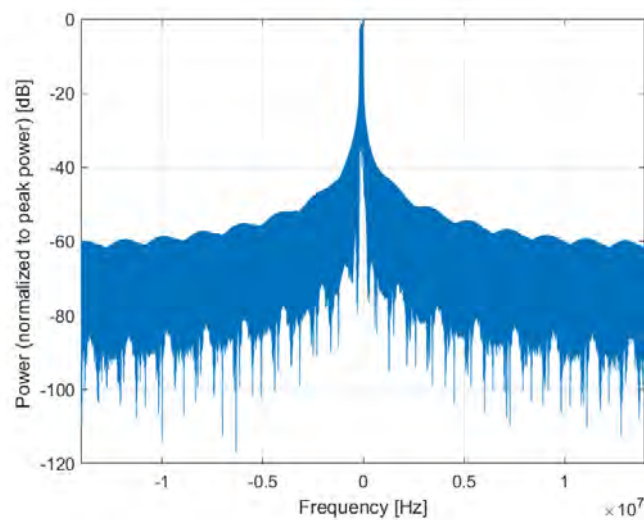
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Name:	5G NR (DFT-s-OFDM, 1 RB, 20 MHz, QPSK, 15 kHz)
Group:	5G NR FR1 FDD
UID:	10931-AAC
PAR: ¹	5.51 dB
MIF: ²	-15.06 dB
Standard Reference:	SPEAG
Category:	Random amplitude modulation
Modulation:	QPSK
Frequency Band:	Band n2 (1850 - 1910 MHz) Band n5 (824 - 849 MHz) Band n25 (1850 - 1915 MHz) Band n66 (1710 - 1780 MHz) Band n71 (663 - 698 MHz) Band n1 (1920 - 1980 MHz) Band n3 (1710 - 1785 MHz) Band n7 (2500 - 2570 MHz) Band n8 (880 - 915 MHz) Band n20 (832 - 862 MHz) Band n26 (814 - 849 MHz) Band n28 (703 - 748 MHz) Band n65 (1920 - 2010 MHz) Band n74 (1427 - 1470 MHz) Band n92 (832 - 862 MHz) Band n94 (880 - 915 MHz) Band n80 (1710 - 1785 MHz) Band n81 (880 - 915 MHz) Band n82 (832 - 862 MHz) Band n83 (703 - 748 MHz) Band n84 (1920 - 1980 MHz) Band n86 (1710 - 1780 MHz) Band n89 (824 - 849 MHz) Band n97 (2300 - 2400 MHz) Band n98 (1880 - 1920 MHz) Validation band (0.0 - 6000.0 MHz)
Detailed Specification:	Multiplexing Scheme: DFT-s-OFDM Modulation Scheme: QPSK Subcarrier Spacing: 15 kHz Number RBs: 1 Data Type: PN9
Bandwidth:	20.0 MHz
Integration Time:	10.0 ms

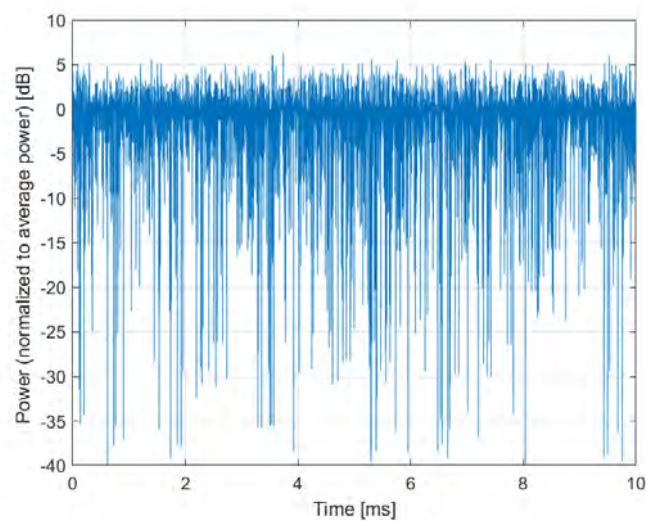
¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



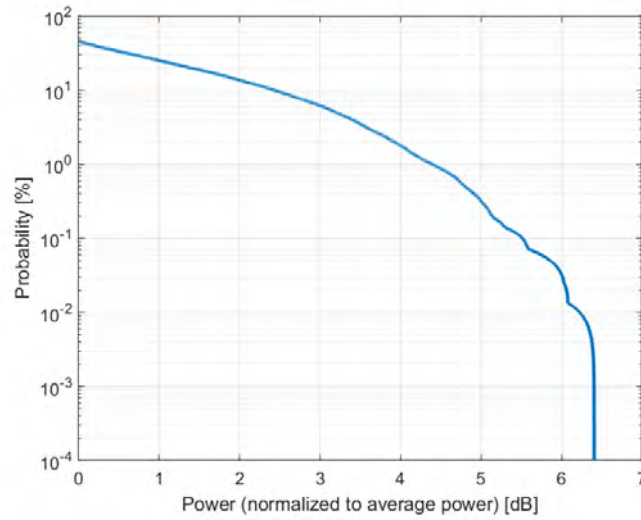
Time Domain

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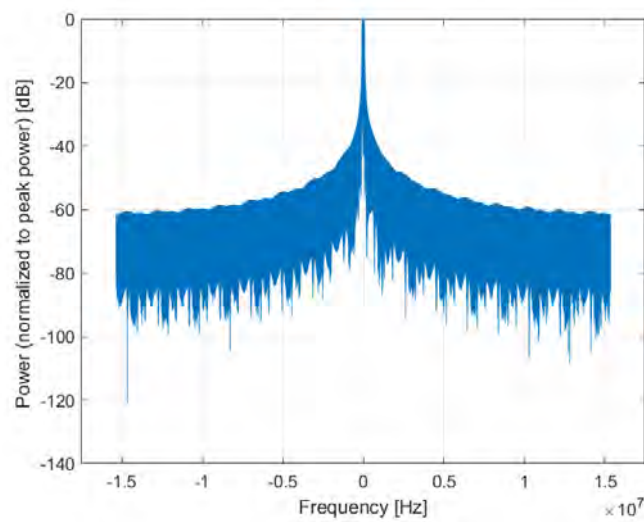
Name:	5G NR (DFT-s-OFDM, 1 RB, 25 MHz, QPSK, 15 kHz)
Group:	5G NR FR1 FDD
UID:	10932-AAC
PAR: ¹	5.51 dB
MIF: ²	-15.06 dB
Standard Reference:	SPEAG
Category:	Random amplitude modulation
Modulation:	QPSK
Frequency Band:	Band n25 (1850 - 1915 MHz) Band n66 (1710 - 1780 MHz) Band n1 (1920 - 1980 MHz) Band n3 (1710 - 1785 MHz) Band n7 (2500 - 2570 MHz) Band n80 (1710 - 1785 MHz) Band n97 (2300 - 2400 MHz) Band n98 (1880 - 1920 MHz) Validation band (0.0 - 6000.0 MHz)
Detailed Specification:	Multiplexing Scheme: DFT-s-OFDM Modulation Scheme: QPSK Subcarrier Spacing: 15 kHz Number RBs: 1 Data Type: PN9
Bandwidth:	25.0 MHz
Integration Time:	10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

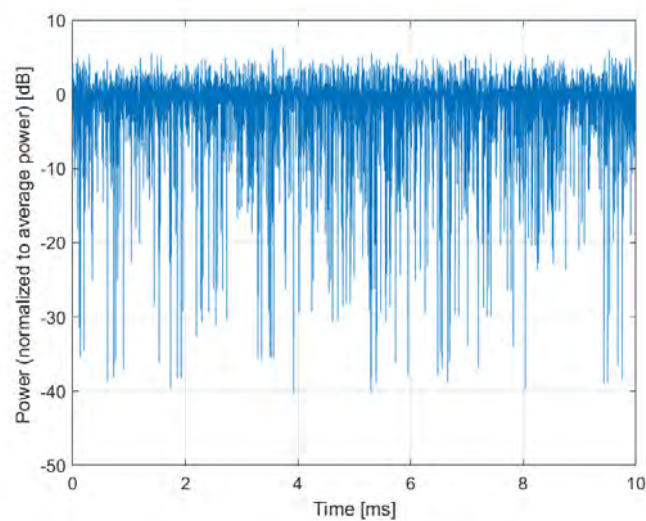
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain

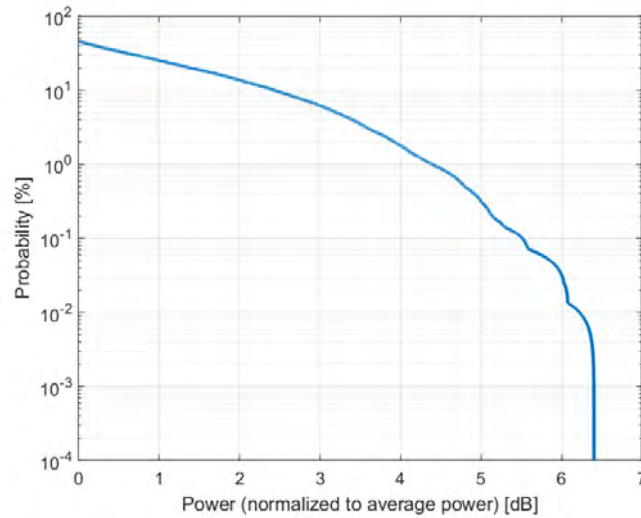


Time Domain

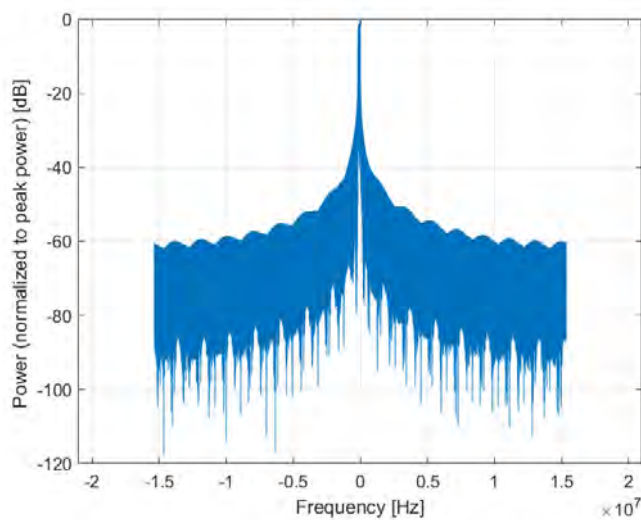
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Name:	5G NR (DFT-s-OFDM, 1 RB, 30 MHz, QPSK, 15 kHz)
Group:	5G NR FR1 FDD
UID:	10933-AAC
PAR: ¹	5.51 dB
MIF: ²	-15.06 dB
Standard Reference:	SPEAG
Category:	Random amplitude modulation
Modulation:	QPSK
Frequency Band:	Band n25 (1850 - 1915 MHz) Band n66 (1710 - 1780 MHz) Band n1 (1920 - 1980 MHz) Band n3 (1710 - 1785 MHz) Band n7 (2500 - 2570 MHz) Band n28 (703 - 748 MHz) Band n80 (1710 - 1785 MHz) Band n97 (2300 - 2400 MHz) Band n98 (1880 - 1920 MHz) Validation band (0.0 - 6000.0 MHz)
Detailed Specification:	Multiplexing Scheme: DFT-s-OFDM Modulation Scheme: QPSK Subcarrier Spacing: 15 kHz Number RBs: 1 Data Type: PN9
Bandwidth:	30.0 MHz
Integration Time:	10.0 ms

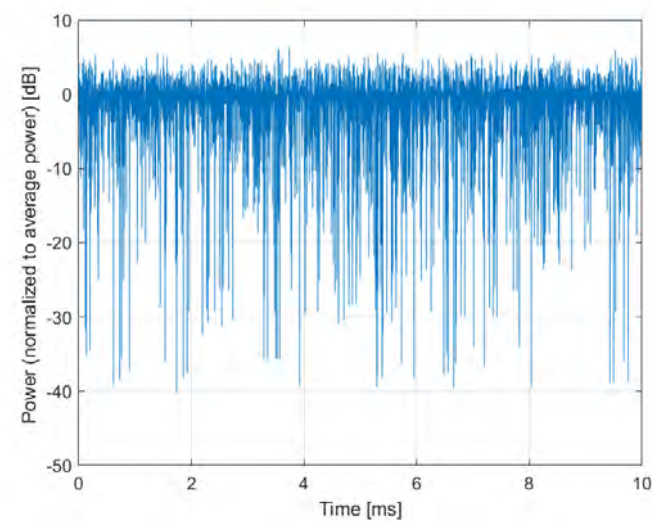
¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



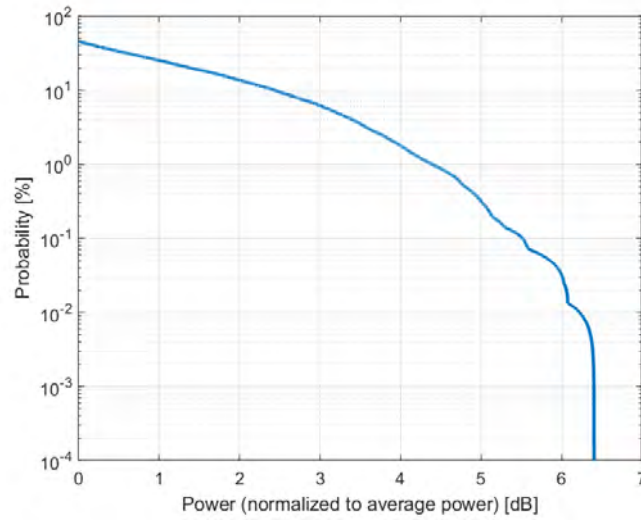
Time Domain

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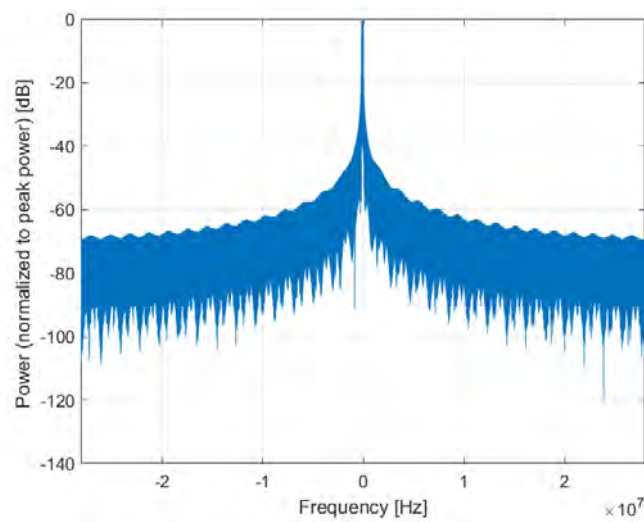
Name:	5G NR (DFT-s-OFDM, 1 RB, 40 MHz, QPSK, 15 kHz)
Group:	5G NR FR1 FDD
UID:	10934-AAC
PAR: ¹	5.51 dB
MIF: ²	-15.07 dB
Standard Reference:	SPEAG
Category:	Random amplitude modulation
Modulation:	QPSK
Frequency Band:	Band n25 (1850 - 1915 MHz) Band n66 (1710 - 1780 MHz) Band n1 (1920 - 1980 MHz) Band n3 (1710 - 1785 MHz) Band n7 (2500 - 2570 MHz) Band n86 (1710 - 1780 MHz) Band n97 (2300 - 2400 MHz) Band n98 (1880 - 1920 MHz) Validation band (0.0 - 6000.0 MHz)
Detailed Specification:	Multiplexing Scheme: DFT-s-OFDM Modulation Scheme: QPSK Subcarrier Spacing: 15 kHz Number RBs: 1 Data Type: PN9
Bandwidth:	40.0 MHz
Integration Time:	10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

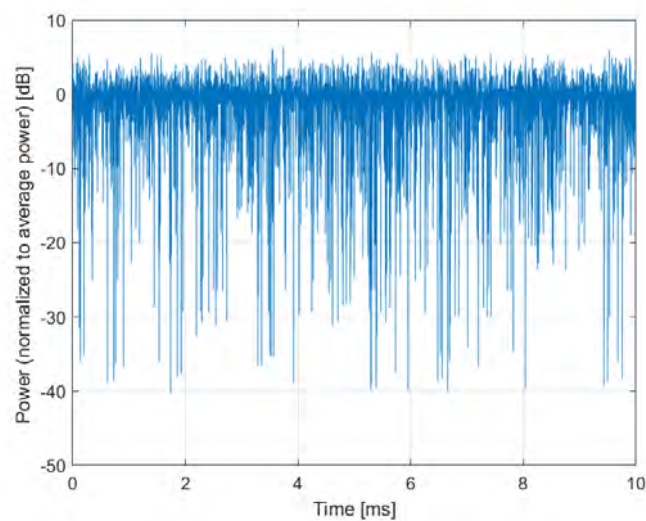
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain

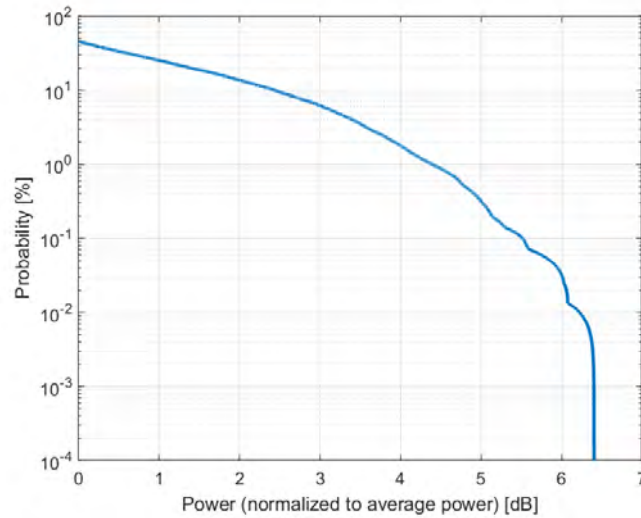


Time Domain

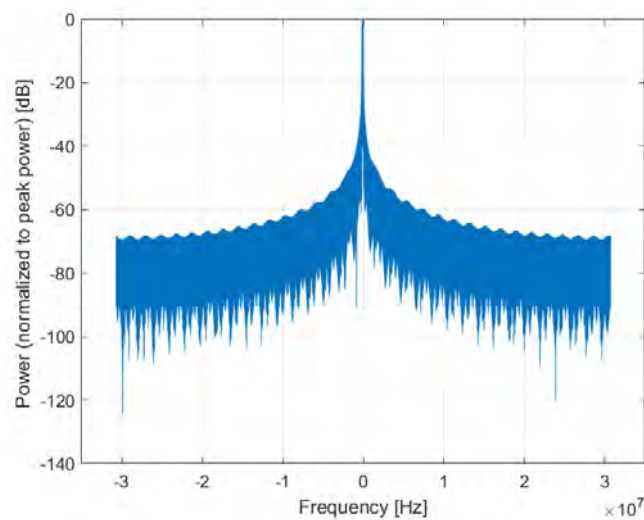
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Name:	5G NR (DFT-s-OFDM, 1 RB, 50 MHz, QPSK, 15 kHz)
Group:	5G NR FR1 FDD
UID:	10935-AAD
PAR: ¹	5.51 dB
MIF: ²	-15.07 dB
Standard Reference:	SPEAG
Category:	Random amplitude modulation
Modulation:	QPSK
Frequency Band:	Band n1 (1920 - 1980 MHz) Band n7 (2500 - 2570 MHz) Band n65 (1920 - 2010 MHz) Band n97 (2300 - 2400 MHz) Validation band (0.0 - 6000.0 MHz)
Detailed Specification:	Multiplexing Scheme: DFT-s-OFDM Modulation Scheme: QPSK Subcarrier Spacing: 15 kHz Number RBs: 1 Data Type: PN9
Bandwidth:	50.0 MHz
Integration Time:	10.0 ms

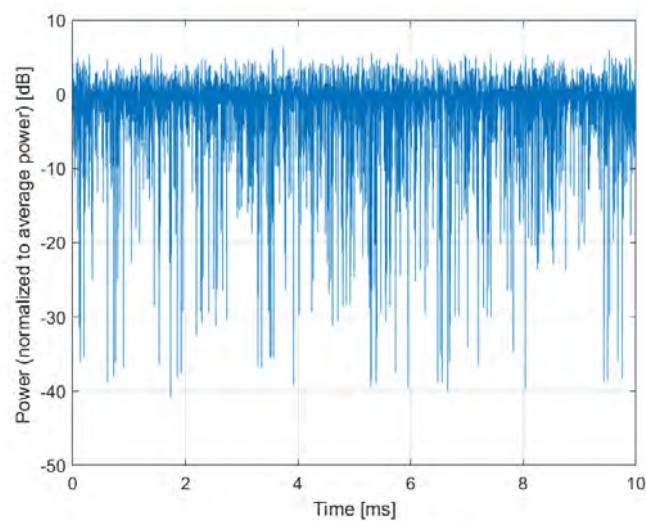
¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



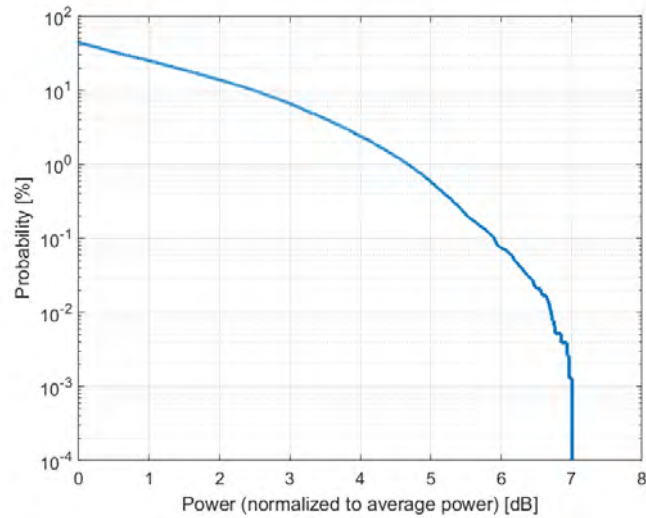
Time Domain

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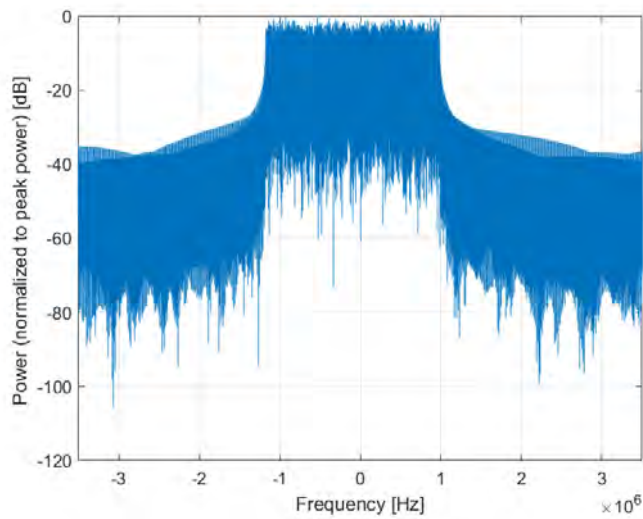
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name:	5G NR (DFT-s-OFDM, 50% RB, 5 MHz, QPSK, 15 kHz)
Group:	5G NR FR1 FDD
UID:	10936-AAD
PAR: ¹	5.90 dB
MIF: ²	-17.91 dB
Standard Reference:	SPEAG
Category:	Random amplitude modulation
Modulation:	QPSK
Frequency Band:	Band n2 (1850 - 1910 MHz) Band n5 (824 - 849 MHz) Band n25 (1850 - 1915 MHz) Band n66 (1710 - 1780 MHz) Band n71 (663 - 698 MHz) Band n1 (1920 - 1980 MHz) Band n3 (1710 - 1785 MHz) Band n7 (2500 - 2570 MHz) Band n8 (880 - 915 MHz) Band n12 (699 - 716 MHz) Band n14 (788 - 798 MHz) Band n18 (815 - 830 MHz) Band n20 (832 - 862 MHz) Band n26 (814 - 849 MHz) Band n28 (703 - 748 MHz) Band n30 (2305 - 2315 MHz) Band n65 (1920 - 2010 MHz) Band n70 (1695 - 1710 MHz) Band n74 (1427 - 1470 MHz) Band n91 (832 - 862 MHz) Band n92 (832 - 862 MHz) Band n93 (880 - 915 MHz) Band n94 (880 - 915 MHz) Band n80 (1710 - 1785 MHz) Band n81 (880 - 915 MHz) Band n82 (832 - 862 MHz) Band n83 (703 - 748 MHz) Band n84 (1920 - 1980 MHz) Band n86 (1710 - 1780 MHz) Band n89 (824 - 849 MHz) Band n95 (2010 - 2025 MHz) Band n24 (1626.5 - 1660.5 MHz) Band n97 (2300 - 2400 MHz) Band n98 (1880 - 1920 MHz) Band n99 (1626.5 - 1660.5 MHz) Band n13 (777 - 787 MHz) Band n100 (874.4 - 880 MHz) Validation band (0.0 - 6000.0 MHz)
Detailed Specification:	Multiplexing Scheme: DFT-s-OFDM Modulation Scheme: QPSK Subcarrier Spacing: 15 kHz Number RBs: 1 Data Type: PN9
Bandwidth:	5.0 MHz
Integration Time:	10.0 ms

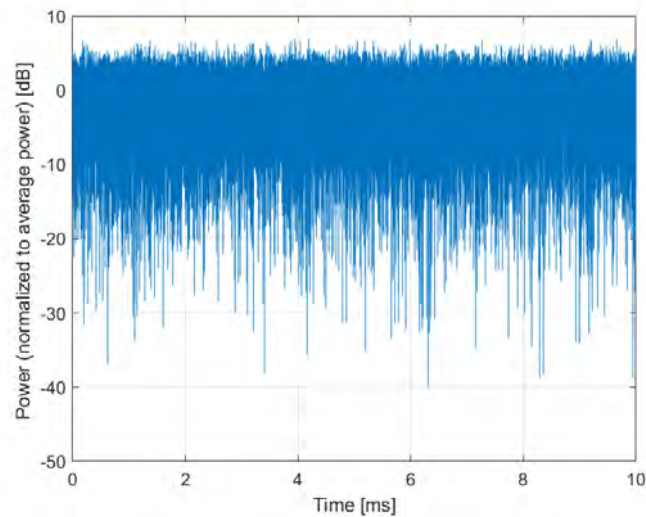
¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



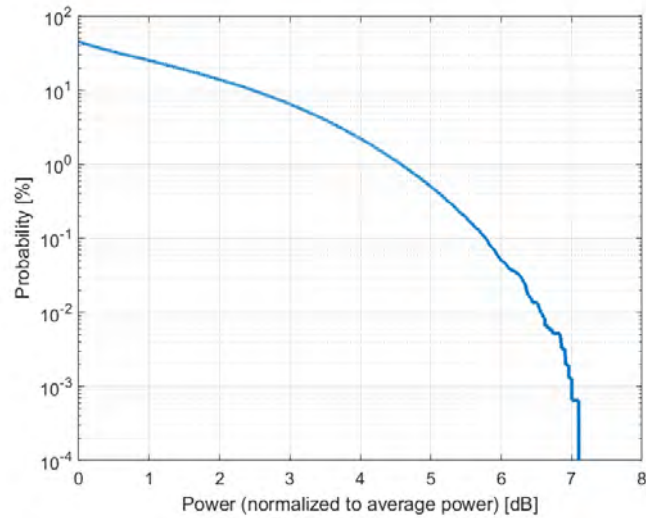
Time Domain

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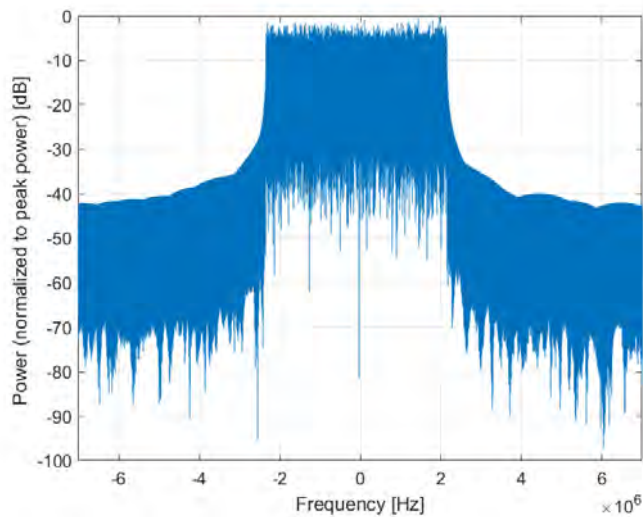
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name:	5G NR (DFT-s-OFDM, 50% RB, 10 MHz, QPSK, 15 kHz)
Group:	5G NR FR1 FDD
UID:	10937-AAD
PAR: ¹	5.77 dB
MIF: ²	-18.38 dB
Standard Reference:	SPEAG
Category:	Random amplitude modulation
Modulation:	QPSK
Frequency Band:	Band n2 (1850 - 1910 MHz) Band n5 (824 - 849 MHz) Band n25 (1850 - 1915 MHz) Band n66 (1710 - 1780 MHz) Band n71 (663 - 698 MHz) Band n1 (1920 - 1980 MHz) Band n3 (1710 - 1785 MHz) Band n7 (2500 - 2570 MHz) Band n8 (880 - 915 MHz) Band n12 (699 - 716 MHz) Band n14 (788 - 798 MHz) Band n18 (815 - 830 MHz) Band n20 (832 - 862 MHz) Band n26 (814 - 849 MHz) Band n28 (703 - 748 MHz) Band n30 (2305 - 2315 MHz) Band n65 (1920 - 2010 MHz) Band n70 (1695 - 1710 MHz) Band n74 (1427 - 1470 MHz) Band n91 (832 - 862 MHz) Band n92 (832 - 862 MHz) Band n93 (880 - 915 MHz) Band n94 (880 - 915 MHz) Band n80 (1710 - 1785 MHz) Band n81 (880 - 915 MHz) Band n82 (832 - 862 MHz) Band n83 (703 - 748 MHz) Band n84 (1920 - 1980 MHz) Band n86 (1710 - 1780 MHz) Band n89 (824 - 849 MHz) Band n95 (2010 - 2025 MHz) Band n24 (1626.5 - 1660.5 MHz) Band n97 (2300 - 2400 MHz) Band n98 (1880 - 1920 MHz) Band n99 (1626.5 - 1660.5 MHz) Band n13 (777 - 787 MHz) Validation band (0.0 - 6000.0 MHz)
Detailed Specification:	Multiplexing Scheme: DFT-s-OFDM Modulation Scheme: QPSK Subcarrier Spacing: 15 kHz Number RBs: 1 Data Type: PN9
Bandwidth:	10.0 MHz
Integration Time:	10.0 ms

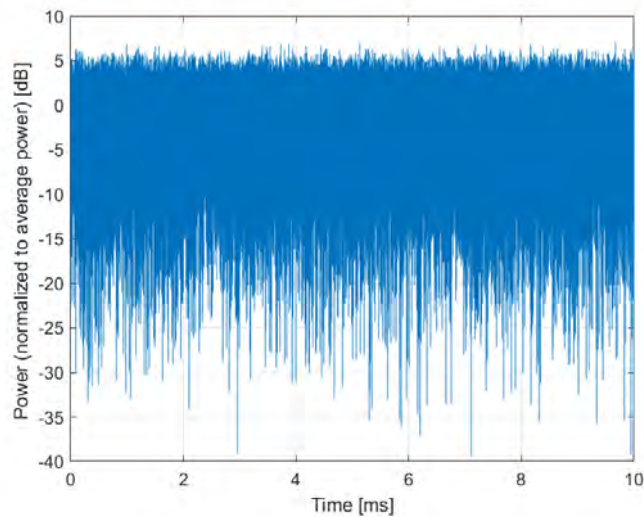
¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

Calibration Laboratory of Schmid & Partner Engineering AG

Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **5G NR (DFT-s-OFDM, 50% RB, 15 MHz, QPSK, 15 kHz)**

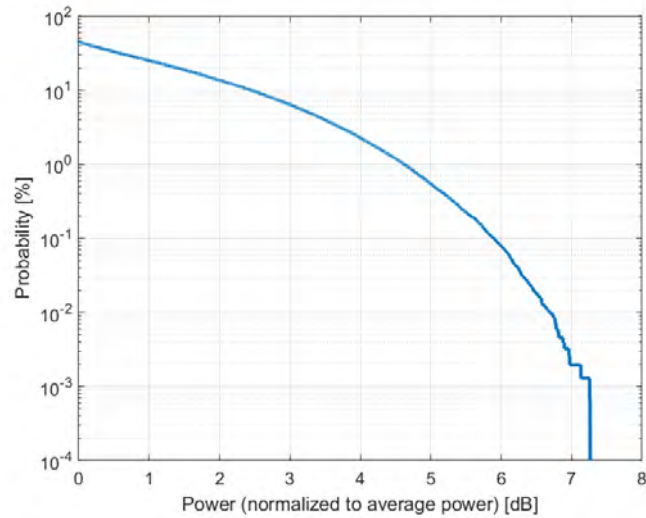
Group: 5G NR FR1 FDD
UID: 10938-AAC

PAR: ¹ **5.90 dB**
MIF: ² **-18.58 dB**

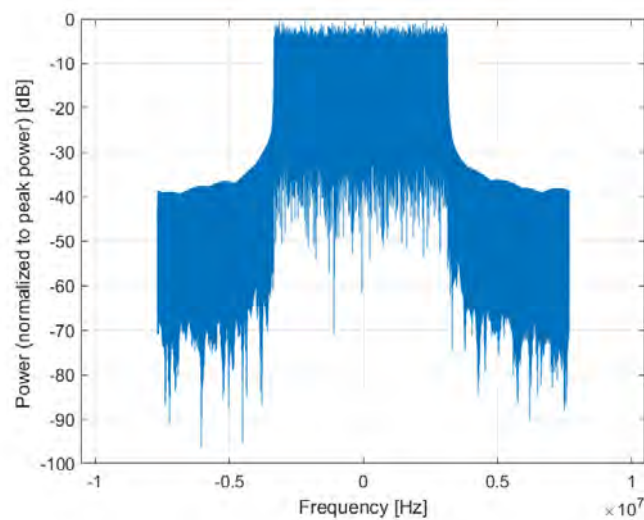
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: QPSK
Frequency Band:
Band n2 (1850 - 1910 MHz)
Band n5 (824 - 849 MHz)
Band n25 (1850 - 1915 MHz)
Band n66 (1710 - 1780 MHz)
Band n71 (663 - 698 MHz)
Band n1 (1920 - 1980 MHz)
Band n3 (1710 - 1785 MHz)
Band n7 (2500 - 2570 MHz)
Band n8 (880 - 915 MHz)
Band n12 (699 - 716 MHz)
Band n18 (815 - 830 MHz)
Band n20 (832 - 862 MHz)
Band n26 (814 - 849 MHz)
Band n28 (703 - 748 MHz)
Band n65 (1920 - 2010 MHz)
Band n70 (1695 - 1710 MHz)
Band n74 (1427 - 1470 MHz)
Band n92 (832 - 862 MHz)
Band n94 (880 - 915 MHz)
Band n80 (1710 - 1785 MHz)
Band n81 (880 - 915 MHz)
Band n82 (832 - 862 MHz)
Band n83 (703 - 748 MHz)
Band n84 (1920 - 1980 MHz)
Band n86 (1710 - 1780 MHz)
Band n89 (824 - 849 MHz)
Band n95 (2010 - 2025 MHz)
Band n97 (2300 - 2400 MHz)
Band n98 (1880 - 1920 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Multiplexing Scheme: DFT-s-OFDM
Modulation Scheme: QPSK
Subcarrier Spacing: 15 kHz
Number RBs: 1
Data Type: PN9
Bandwidth: 15.0 MHz
Integration Time: 10.0 ms

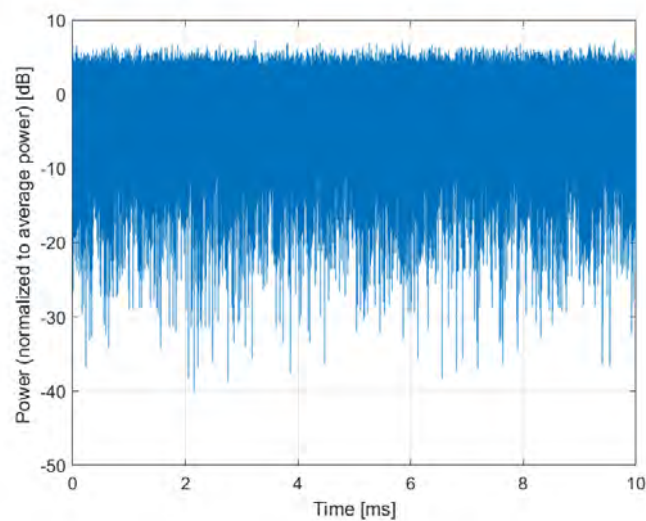
¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



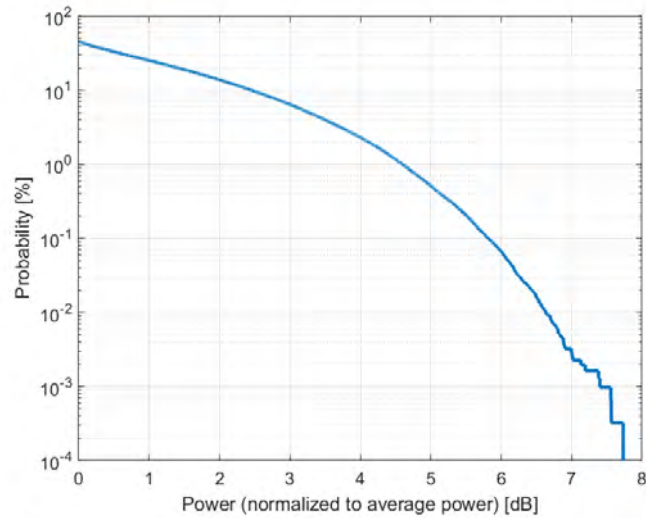
Time Domain

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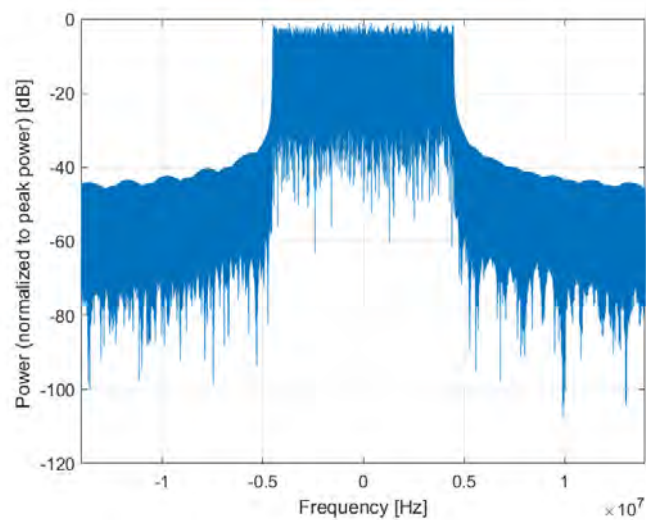
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name:	5G NR (DFT-s-OFDM, 50% RB, 20 MHz, QPSK, 15 kHz)
Group:	5G NR FR1 FDD
UID:	10939-AAC
PAR: ¹	5.82 dB
MIF: ²	-18.65 dB
Standard Reference:	SPEAG
Category:	Random amplitude modulation
Modulation:	QPSK
Frequency Band:	Band n2 (1850 - 1910 MHz) Band n5 (824 - 849 MHz) Band n25 (1850 - 1915 MHz) Band n66 (1710 - 1780 MHz) Band n71 (663 - 698 MHz) Band n1 (1920 - 1980 MHz) Band n3 (1710 - 1785 MHz) Band n7 (2500 - 2570 MHz) Band n8 (880 - 915 MHz) Band n20 (832 - 862 MHz) Band n26 (814 - 849 MHz) Band n28 (703 - 748 MHz) Band n65 (1920 - 2010 MHz) Band n74 (1427 - 1470 MHz) Band n92 (832 - 862 MHz) Band n94 (880 - 915 MHz) Band n80 (1710 - 1785 MHz) Band n81 (880 - 915 MHz) Band n82 (832 - 862 MHz) Band n83 (703 - 748 MHz) Band n84 (1920 - 1980 MHz) Band n86 (1710 - 1780 MHz) Band n89 (824 - 849 MHz) Band n97 (2300 - 2400 MHz) Band n98 (1880 - 1920 MHz) Validation band (0.0 - 6000.0 MHz)
Detailed Specification:	Multiplexing Scheme: DFT-s-OFDM Modulation Scheme: QPSK Subcarrier Spacing: 15 kHz Number RBs: 1 Data Type: PN9
Bandwidth:	20.0 MHz
Integration Time:	10.0 ms

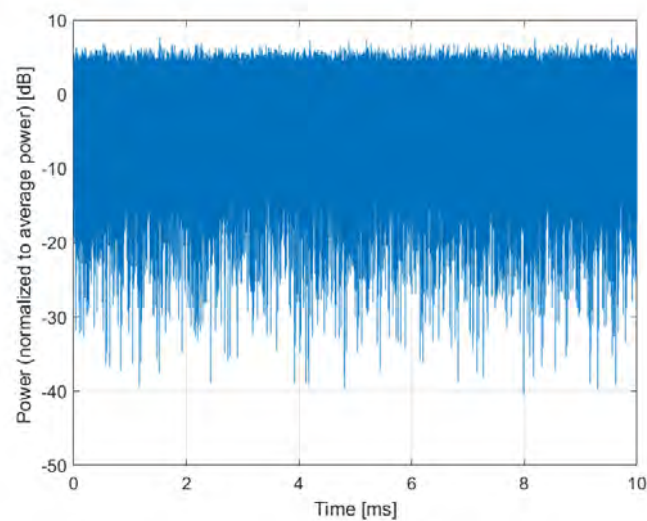
¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



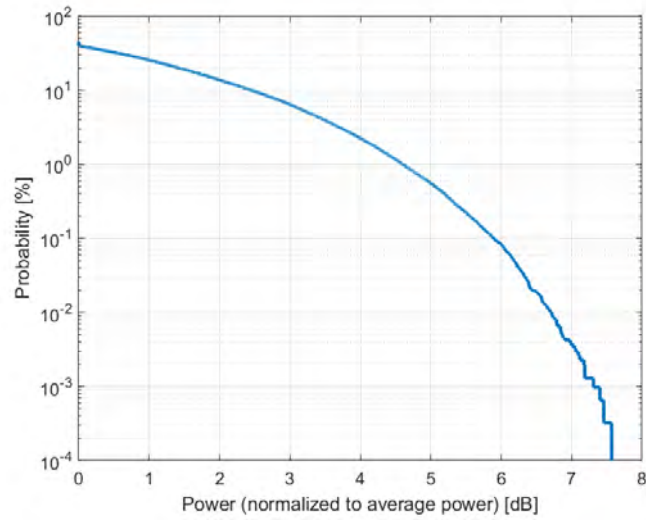
Time Domain

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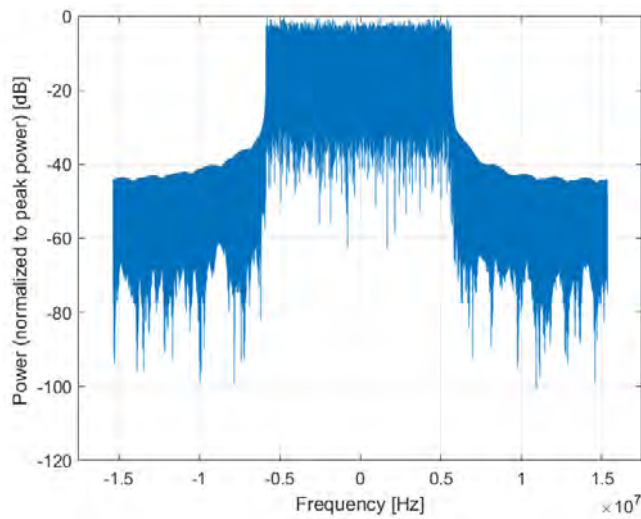
Name:	5G NR (DFT-s-OFDM, 50% RB, 25 MHz, QPSK, 15 kHz)
Group:	5G NR FR1 FDD
UID:	10940-AAC
PAR: ¹	5.89 dB
MIF: ²	-18.65 dB
Standard Reference:	SPEAG
Category:	Random amplitude modulation
Modulation:	QPSK
Frequency Band:	Band n25 (1850 - 1915 MHz) Band n66 (1710 - 1780 MHz) Band n1 (1920 - 1980 MHz) Band n3 (1710 - 1785 MHz) Band n7 (2500 - 2570 MHz) Band n80 (1710 - 1785 MHz) Band n97 (2300 - 2400 MHz) Band n98 (1880 - 1920 MHz) Validation band (0.0 - 6000.0 MHz)
Detailed Specification:	Multiplexing Scheme: DFT-s-OFDM Modulation Scheme: QPSK Subcarrier Spacing: 15 kHz Number RBs: 1 Data Type: PN9
Bandwidth:	25.0 MHz
Integration Time:	10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

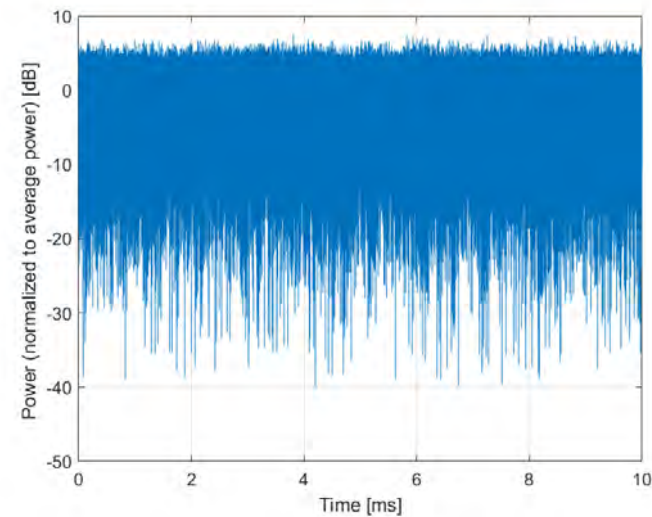
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain

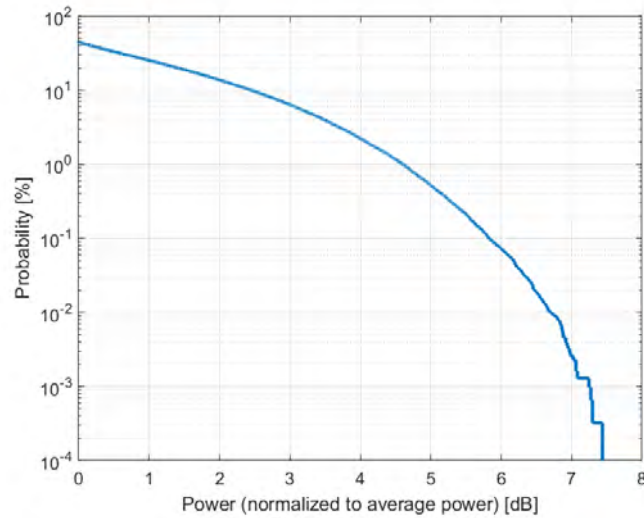


Time Domain

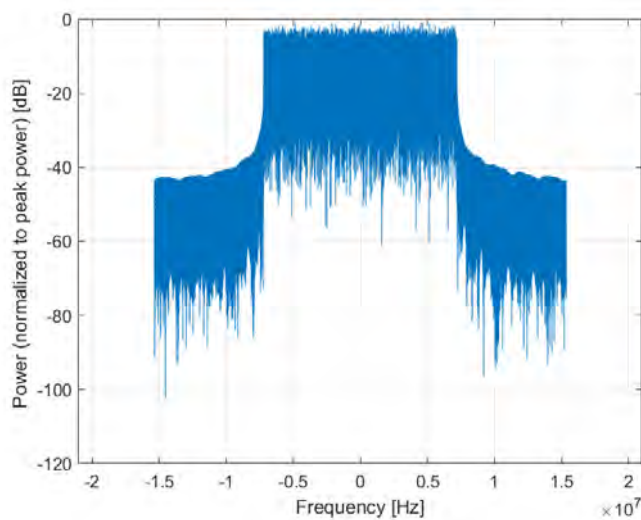
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Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name:	5G NR (DFT-s-OFDM, 50% RB, 30 MHz, QPSK, 15 kHz)
Group:	5G NR FR1 FDD
UID:	10941-AAC
PAR: ¹	5.83 dB
MIF: ²	-18.66 dB
Standard Reference:	SPEAG
Category:	Random amplitude modulation
Modulation:	QPSK
Frequency Band:	Band n25 (1850 - 1915 MHz) Band n66 (1710 - 1780 MHz) Band n1 (1920 - 1980 MHz) Band n3 (1710 - 1785 MHz) Band n7 (2500 - 2570 MHz) Band n28 (703 - 748 MHz) Band n80 (1710 - 1785 MHz) Band n97 (2300 - 2400 MHz) Band n98 (1880 - 1920 MHz) Validation band (0.0 - 6000.0 MHz)
Detailed Specification:	Multiplexing Scheme: DFT-s-OFDM Modulation Scheme: QPSK Subcarrier Spacing: 15 kHz Number RBs: 1 Data Type: PN9
Bandwidth:	30.0 MHz
Integration Time:	10.0 ms

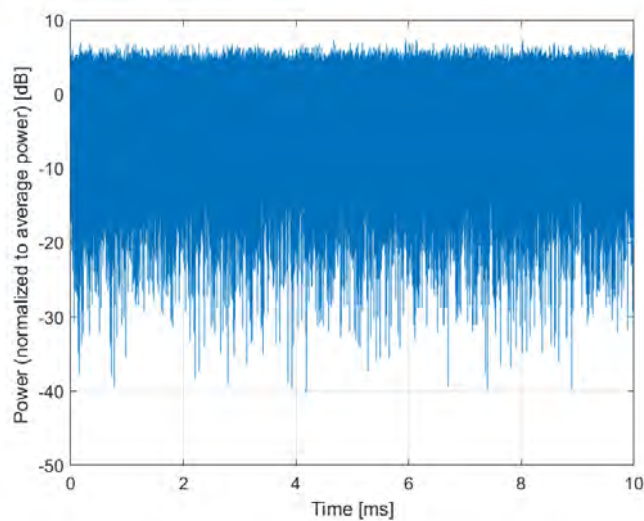
¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain

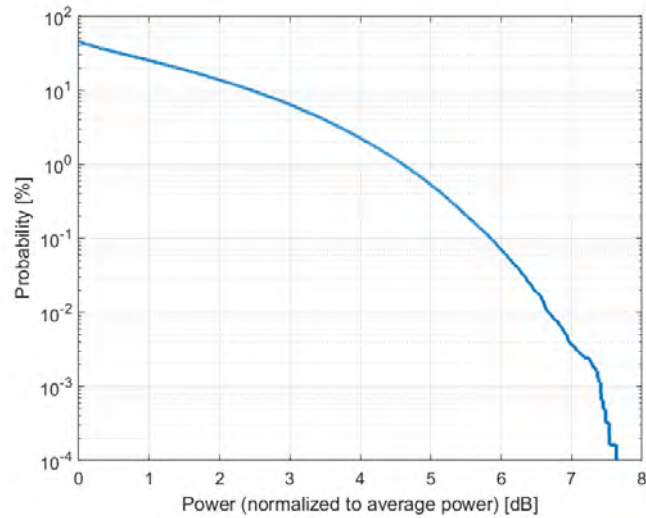


Time Domain

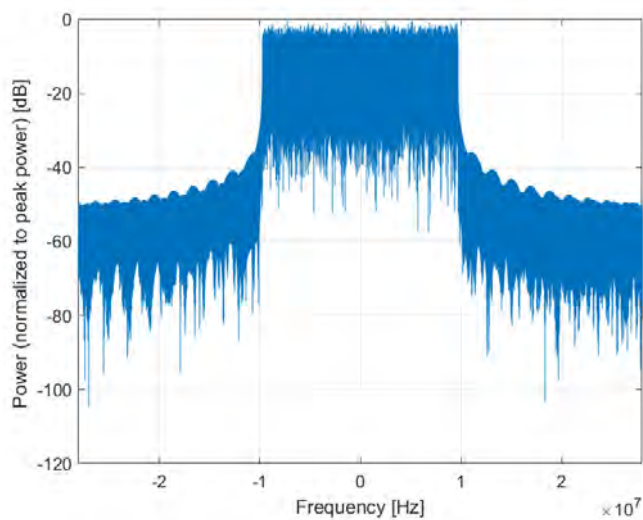
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Name:	5G NR (DFT-s-OFDM, 50% RB, 40 MHz, QPSK, 15 kHz)
Group:	5G NR FR1 FDD
UID:	10942-AAC
PAR: ¹	5.85 dB
MIF: ²	-18.71 dB
Standard Reference:	SPEAG
Category:	Random amplitude modulation
Modulation:	QPSK
Frequency Band:	Band n25 (1850 - 1915 MHz) Band n66 (1710 - 1780 MHz) Band n1 (1920 - 1980 MHz) Band n3 (1710 - 1785 MHz) Band n7 (2500 - 2570 MHz) Band n86 (1710 - 1780 MHz) Band n97 (2300 - 2400 MHz) Band n98 (1880 - 1920 MHz) Validation band (0.0 - 6000.0 MHz)
Detailed Specification:	Multiplexing Scheme: DFT-s-OFDM Modulation Scheme: QPSK Subcarrier Spacing: 15 kHz Number RBs: 1 Data Type: PN9
Bandwidth:	40.0 MHz
Integration Time:	10.0 ms

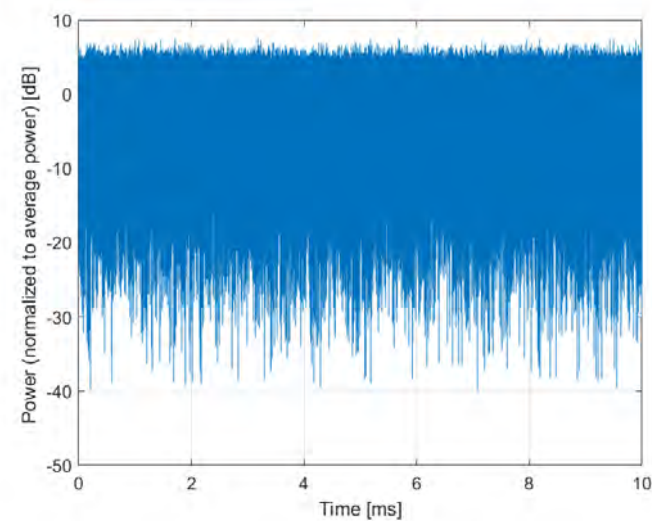
¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



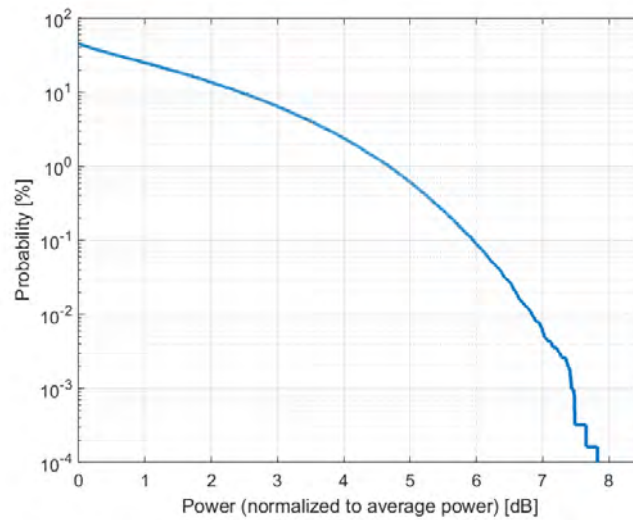
Time Domain

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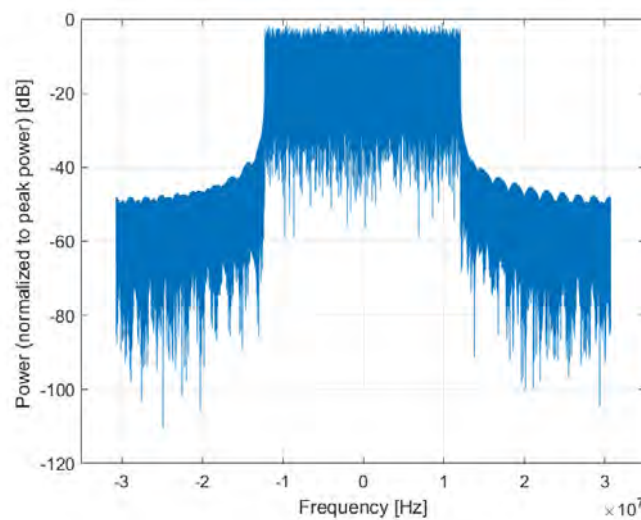
Name:	5G NR (DFT-s-OFDM, 50% RB, 50 MHz, QPSK, 15 kHz)
Group:	5G NR FR1 FDD
UID:	10943-AAD
PAR: ¹	5.95 dB
MIF: ²	-18.52 dB
Standard Reference:	SPEAG
Category:	Random amplitude modulation
Modulation:	QPSK
Frequency Band:	Band n1 (1920 - 1980 MHz) Band n7 (2500 - 2570 MHz) Band n65 (1920 - 2010 MHz) Band n97 (2300 - 2400 MHz) Validation band (0.0 - 6000.0 MHz)
Detailed Specification:	Multiplexing Scheme: DFT-s-OFDM Modulation Scheme: QPSK Subcarrier Spacing: 15 kHz Number RBs: 1 Data Type: PN9
Bandwidth:	50.0 MHz
Integration Time:	10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

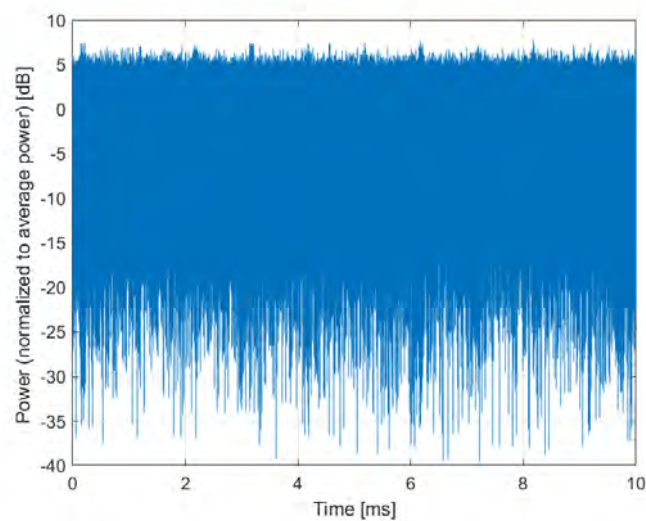
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

Calibration Laboratory of Schmid & Partner Engineering AG

Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **5G NR (DFT-s-OFDM, 100% RB, 5 MHz, QPSK, 15 kHz)**

Group: 5G NR FR1 FDD
UID: 10944-AAD

PAR: ¹ **5.81 dB**
MIF: ² **-18.38 dB**

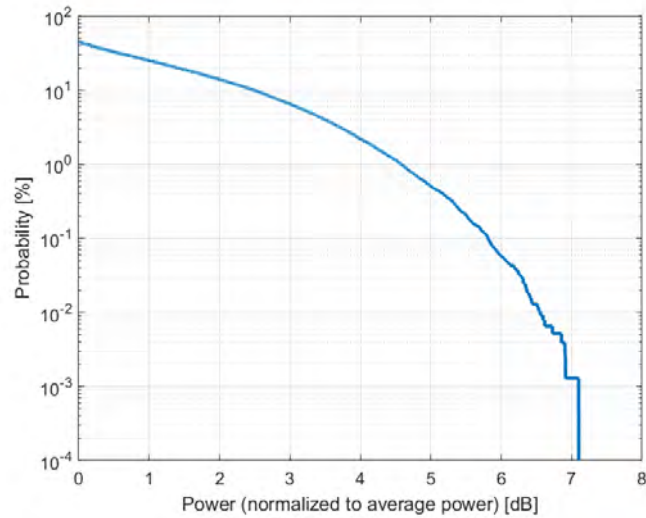
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: QPSK
Frequency Band:

- Band n2 (1850 - 1910 MHz)
- Band n5 (824 - 849 MHz)
- Band n25 (1850 - 1915 MHz)
- Band n66 (1710 - 1780 MHz)
- Band n71 (663 - 698 MHz)
- Band n1 (1920 - 1980 MHz)
- Band n3 (1710 - 1785 MHz)
- Band n7 (2500 - 2570 MHz)
- Band n8 (880 - 915 MHz)
- Band n12 (699 - 716 MHz)
- Band n14 (788 - 798 MHz)
- Band n18 (815 - 830 MHz)
- Band n20 (832 - 862 MHz)
- Band n26 (814 - 849 MHz)
- Band n28 (703 - 748 MHz)
- Band n30 (2305 - 2315 MHz)
- Band n65 (1920 - 2010 MHz)
- Band n70 (1695 - 1710 MHz)
- Band n74 (1427 - 1470 MHz)
- Band n91 (832 - 862 MHz)
- Band n92 (832 - 862 MHz)
- Band n93 (880 - 915 MHz)
- Band n94 (880 - 915 MHz)
- Band n80 (1710 - 1785 MHz)
- Band n81 (880 - 915 MHz)
- Band n82 (832 - 862 MHz)
- Band n83 (703 - 748 MHz)
- Band n84 (1920 - 1980 MHz)
- Band n86 (1710 - 1780 MHz)
- Band n89 (824 - 849 MHz)
- Band n95 (2010 - 2025 MHz)
- Band n24 (1626.5 - 1660.5 MHz)
- Band n97 (2300 - 2400 MHz)
- Band n98 (1880 - 1920 MHz)
- Band n99 (1626.5 - 1660.5 MHz)
- Band n13 (777 - 787 MHz)
- Band n100 (874.4 - 880 MHz)
- Validation band (0.0 - 6000.0 MHz)

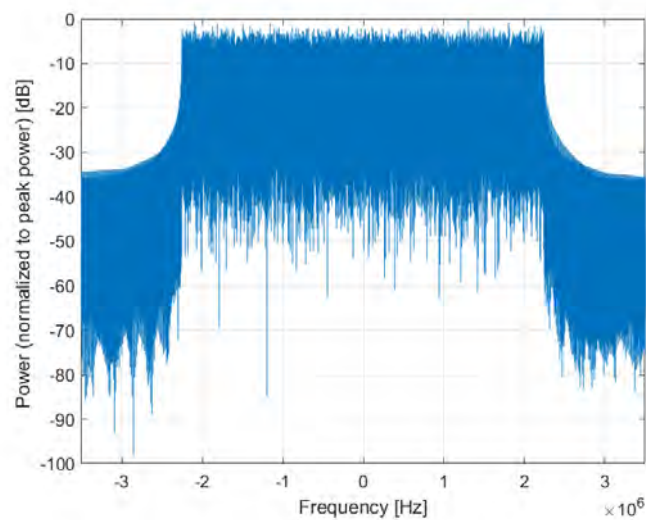
Detailed Specification: Multiplexing Scheme: DFT-s-OFDM
Modulation Scheme: QPSK
Subcarrier Spacing: 15 kHz
Number RBs: 1
Data Type: PN9

Bandwidth: 5.0 MHz
Integration Time: 10.0 ms

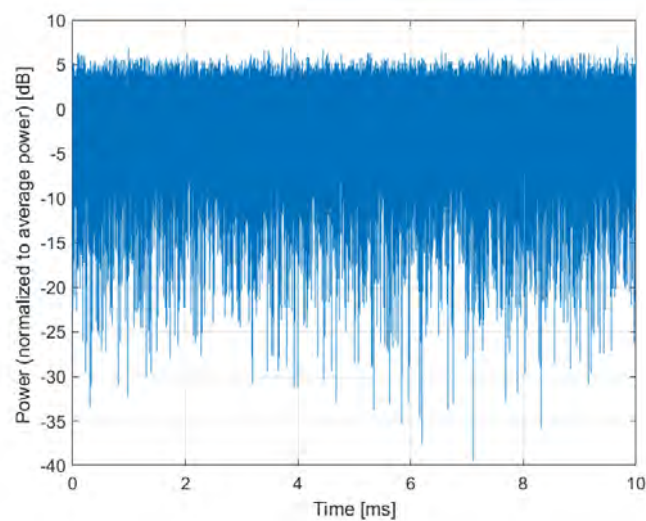
¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



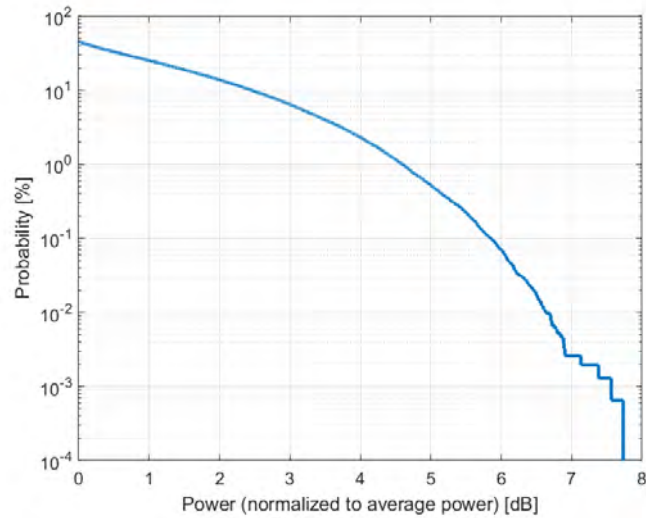
Time Domain

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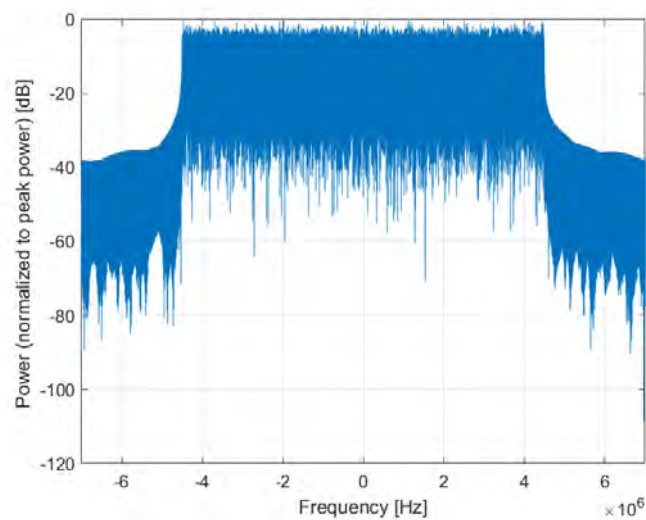
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name:	5G NR (DFT-s-OFDM, 100% RB, 10 MHz, QPSK, 15 kHz)
Group:	5G NR FR1 FDD
UID:	10945-AAD
PAR: ¹	5.85 dB
MIF: ²	-18.65 dB
Standard Reference:	SPEAG
Category:	Random amplitude modulation
Modulation:	QPSK
Frequency Band:	Band n2 (1850 - 1910 MHz) Band n5 (824 - 849 MHz) Band n25 (1850 - 1915 MHz) Band n66 (1710 - 1780 MHz) Band n71 (663 - 698 MHz) Band n1 (1920 - 1980 MHz) Band n3 (1710 - 1785 MHz) Band n7 (2500 - 2570 MHz) Band n8 (880 - 915 MHz) Band n12 (699 - 716 MHz) Band n14 (788 - 798 MHz) Band n18 (815 - 830 MHz) Band n20 (832 - 862 MHz) Band n26 (814 - 849 MHz) Band n28 (703 - 748 MHz) Band n30 (2305 - 2315 MHz) Band n65 (1920 - 2010 MHz) Band n70 (1695 - 1710 MHz) Band n74 (1427 - 1470 MHz) Band n91 (832 - 862 MHz) Band n92 (832 - 862 MHz) Band n93 (880 - 915 MHz) Band n94 (880 - 915 MHz) Band n80 (1710 - 1785 MHz) Band n81 (880 - 915 MHz) Band n82 (832 - 862 MHz) Band n83 (703 - 748 MHz) Band n84 (1920 - 1980 MHz) Band n86 (1710 - 1780 MHz) Band n89 (824 - 849 MHz) Band n95 (2010 - 2025 MHz) Band n24 (1626.5 - 1660.5 MHz) Band n97 (2300 - 2400 MHz) Band n98 (1880 - 1920 MHz) Band n99 (1626.5 - 1660.5 MHz) Band n13 (777 - 787 MHz) Validation band (0.0 - 6000.0 MHz)
Detailed Specification:	Multiplexing Scheme: DFT-s-OFDM Modulation Scheme: QPSK Subcarrier Spacing: 15 kHz Number RBs: 1 Data Type: PN9
Bandwidth:	10.0 MHz
Integration Time:	10.0 ms

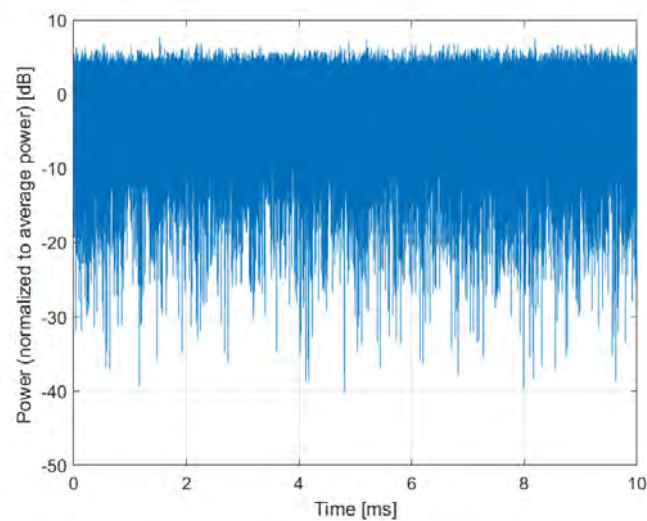
¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



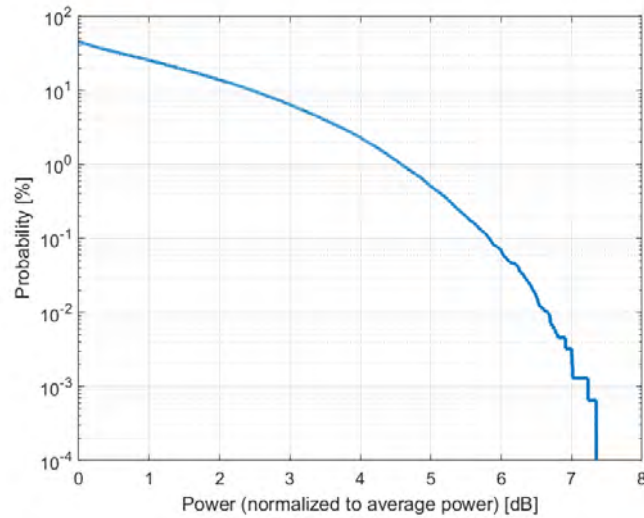
Time Domain

Calibration Laboratory of Schmid & Partner Engineering AG

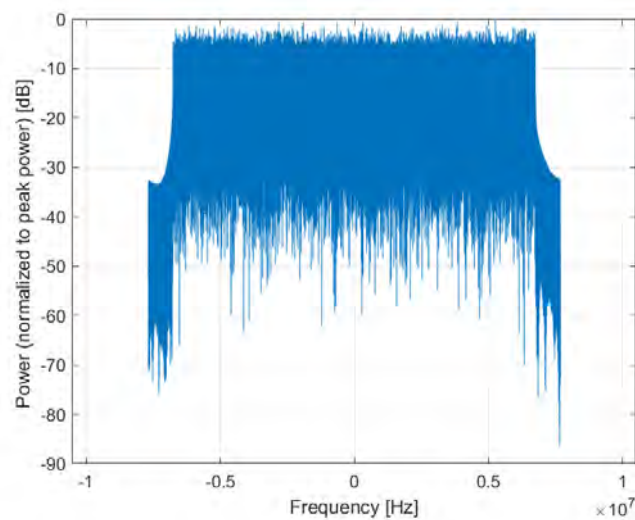
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name:	5G NR (DFT-s-OFDM, 100% RB, 15 MHz, QPSK, 15 kHz)
Group:	5G NR FR1 FDD
UID:	10946-AAC
PAR: ¹	5.83 dB
MIF: ²	-18.70 dB
Standard Reference:	SPEAG
Category:	Random amplitude modulation
Modulation:	QPSK
Frequency Band:	Band n2 (1850 - 1910 MHz) Band n5 (824 - 849 MHz) Band n25 (1850 - 1915 MHz) Band n66 (1710 - 1780 MHz) Band n71 (663 - 698 MHz) Band n1 (1920 - 1980 MHz) Band n3 (1710 - 1785 MHz) Band n7 (2500 - 2570 MHz) Band n8 (880 - 915 MHz) Band n12 (699 - 716 MHz) Band n18 (815 - 830 MHz) Band n20 (832 - 862 MHz) Band n26 (814 - 849 MHz) Band n28 (703 - 748 MHz) Band n65 (1920 - 2010 MHz) Band n70 (1695 - 1710 MHz) Band n74 (1427 - 1470 MHz) Band n92 (832 - 862 MHz) Band n94 (880 - 915 MHz) Band n80 (1710 - 1785 MHz) Band n81 (880 - 915 MHz) Band n82 (832 - 862 MHz) Band n83 (703 - 748 MHz) Band n84 (1920 - 1980 MHz) Band n86 (1710 - 1780 MHz) Band n89 (824 - 849 MHz) Band n95 (2010 - 2025 MHz) Band n97 (2300 - 2400 MHz) Band n98 (1880 - 1920 MHz) Validation band (0.0 - 6000.0 MHz)
Detailed Specification:	Multiplexing Scheme: DFT-s-OFDM Modulation Scheme: QPSK Subcarrier Spacing: 15 kHz Number RBs: 1 Data Type: PN9
Bandwidth:	15.0 MHz
Integration Time:	10.0 ms

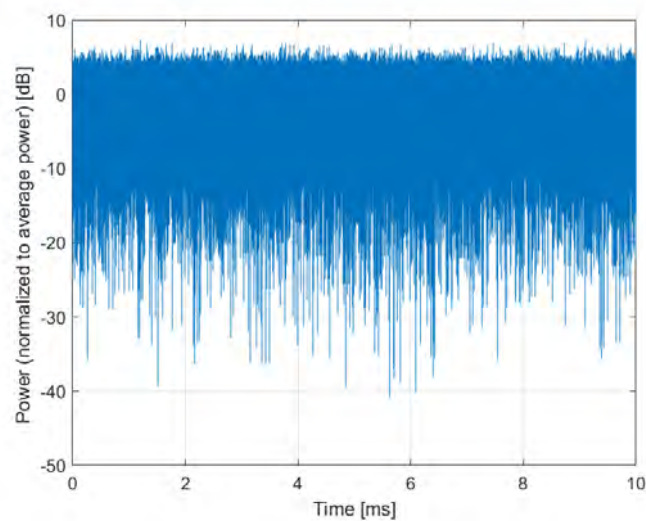
¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

Calibration Laboratory of Schmid & Partner Engineering AG

Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **5G NR (DFT-s-OFDM, 100% RB, 20 MHz, QPSK, 15 kHz)**

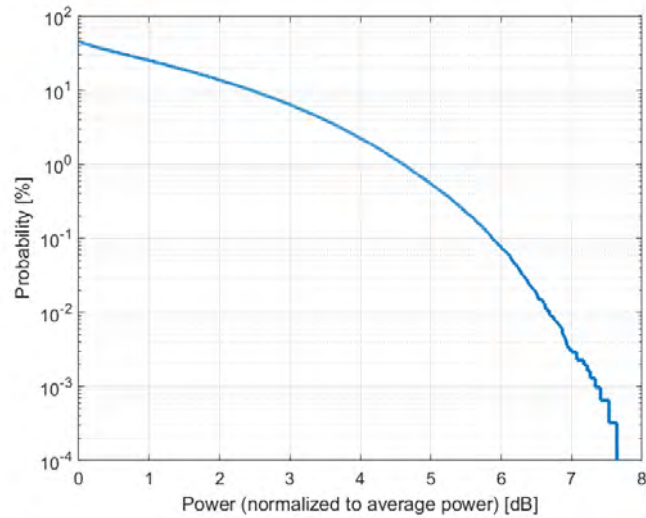
Group: 5G NR FR1 FDD
UID: 10947-AAC

PAR: ¹ **5.87 dB**
MIF: ² **-18.60 dB**

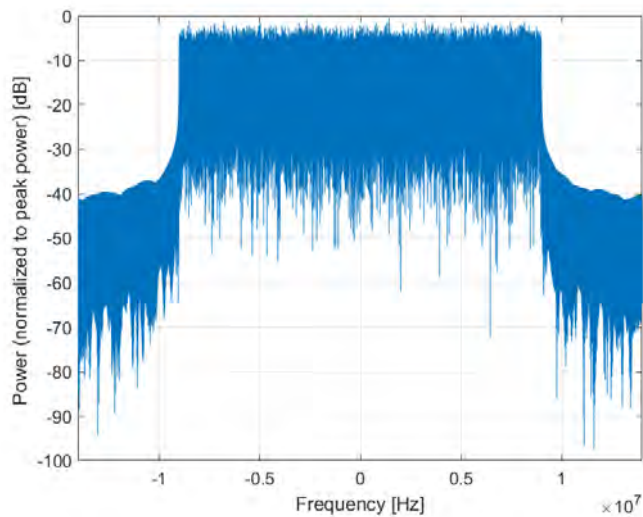
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: QPSK
Frequency Band:
Band n2 (1850 - 1910 MHz)
Band n5 (824 - 849 MHz)
Band n25 (1850 - 1915 MHz)
Band n66 (1710 - 1780 MHz)
Band n71 (663 - 698 MHz)
Band n1 (1920 - 1980 MHz)
Band n3 (1710 - 1785 MHz)
Band n7 (2500 - 2570 MHz)
Band n8 (880 - 915 MHz)
Band n20 (832 - 862 MHz)
Band n26 (814 - 849 MHz)
Band n28 (703 - 748 MHz)
Band n65 (1920 - 2010 MHz)
Band n74 (1427 - 1470 MHz)
Band n92 (832 - 862 MHz)
Band n94 (880 - 915 MHz)
Band n80 (1710 - 1785 MHz)
Band n81 (880 - 915 MHz)
Band n82 (832 - 862 MHz)
Band n83 (703 - 748 MHz)
Band n84 (1920 - 1980 MHz)
Band n86 (1710 - 1780 MHz)
Band n89 (824 - 849 MHz)
Band n97 (2300 - 2400 MHz)
Band n98 (1880 - 1920 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Multiplexing Scheme: DFT-s-OFDM
Modulation Scheme: QPSK
Subcarrier Spacing: 15 kHz
Number RBs: 1
Data Type: PN9
Bandwidth: 20.0 MHz
Integration Time: 10.0 ms

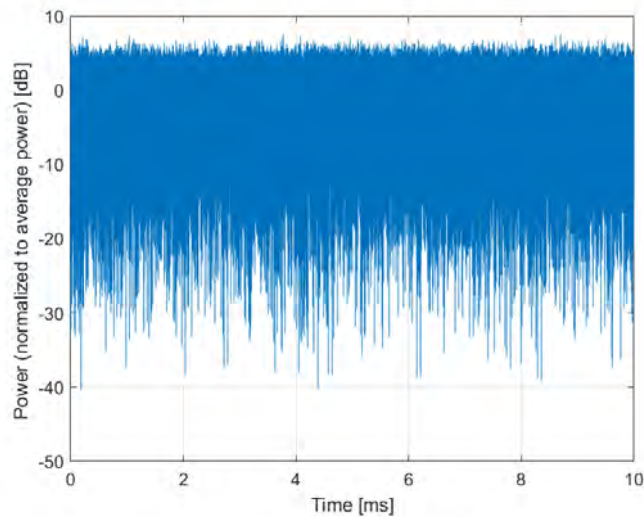
¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



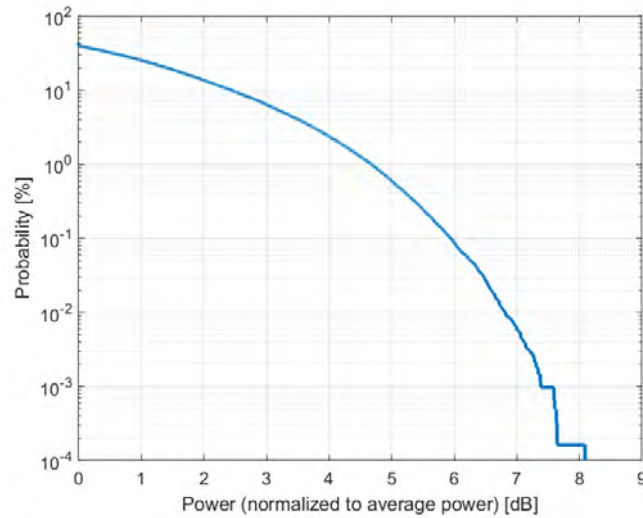
Time Domain

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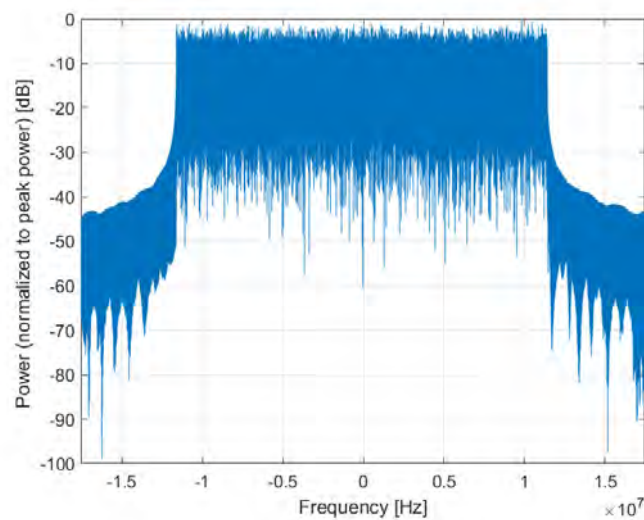
Name:	5G NR (DFT-s-OFDM, 100% RB, 25 MHz, QPSK, 15 kHz)
Group:	5G NR FR1 FDD
UID:	10948-AAC
PAR: ¹	5.94 dB
MIF: ²	-18.50 dB
Standard Reference:	SPEAG
Category:	Random amplitude modulation
Modulation:	QPSK
Frequency Band:	Band n25 (1850 - 1915 MHz) Band n66 (1710 - 1780 MHz) Band n1 (1920 - 1980 MHz) Band n3 (1710 - 1785 MHz) Band n7 (2500 - 2570 MHz) Band n80 (1710 - 1785 MHz) Band n97 (2300 - 2400 MHz) Band n98 (1880 - 1920 MHz) Validation band (0.0 - 6000.0 MHz)
Detailed Specification:	Multiplexing Scheme: DFT-s-OFDM Modulation Scheme: QPSK Subcarrier Spacing: 15 kHz Number RBs: 1 Data Type: PN9
Bandwidth:	25.0 MHz
Integration Time:	10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

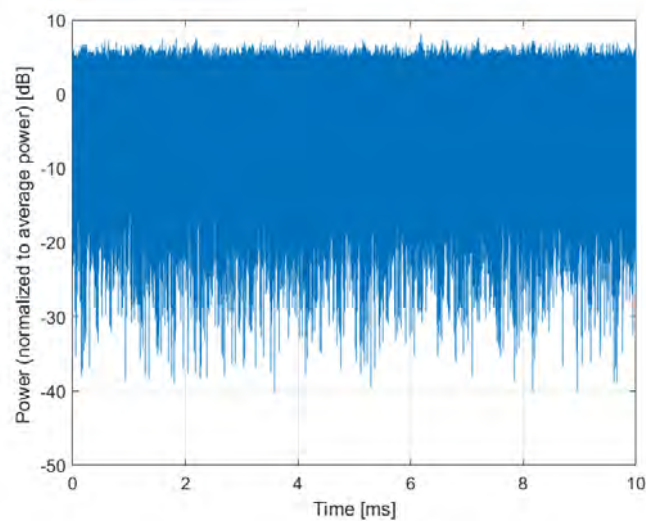
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain

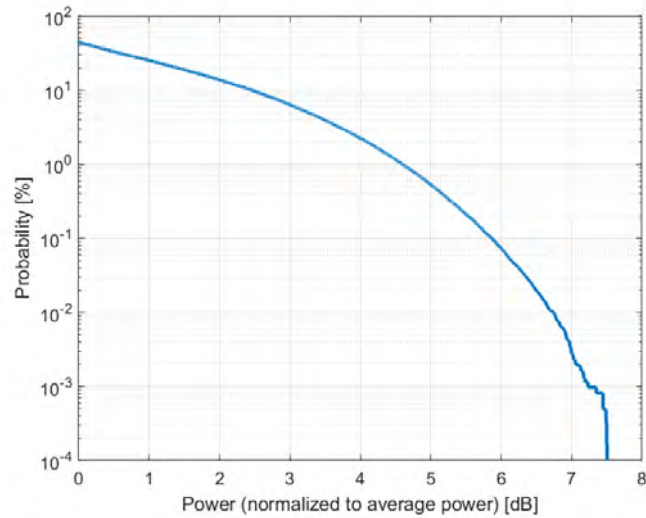


Time Domain

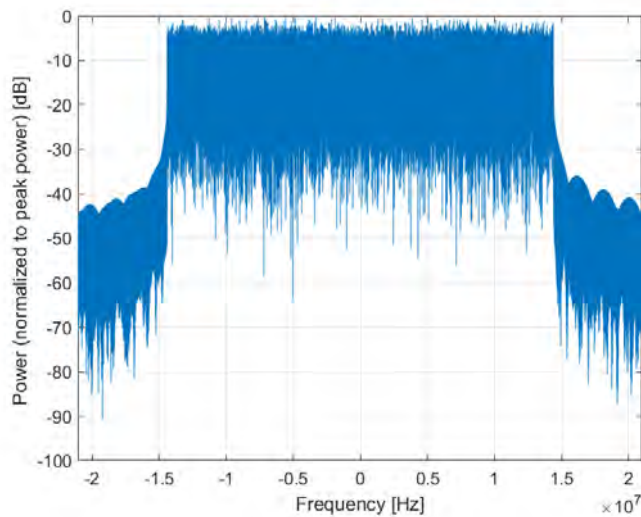
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Zeughausstrasse 43, 8004 Zurich, Switzerland

Name:	5G NR (DFT-s-OFDM, 100% RB, 30 MHz, QPSK, 15 kHz)
Group:	5G NR FR1 FDD
UID:	10949-AAC
PAR: ¹	5.87 dB
MIF: ²	-18.85 dB
Standard Reference:	SPEAG
Category:	Random amplitude modulation
Modulation:	QPSK
Frequency Band:	Band n25 (1850 - 1915 MHz) Band n66 (1710 - 1780 MHz) Band n1 (1920 - 1980 MHz) Band n3 (1710 - 1785 MHz) Band n7 (2500 - 2570 MHz) Band n28 (703 - 748 MHz) Band n80 (1710 - 1785 MHz) Band n97 (2300 - 2400 MHz) Band n98 (1880 - 1920 MHz) Validation band (0.0 - 6000.0 MHz)
Detailed Specification:	Multiplexing Scheme: DFT-s-OFDM Modulation Scheme: QPSK Subcarrier Spacing: 15 kHz Number RBs: 1 Data Type: PN9
Bandwidth:	30.0 MHz
Integration Time:	10.0 ms

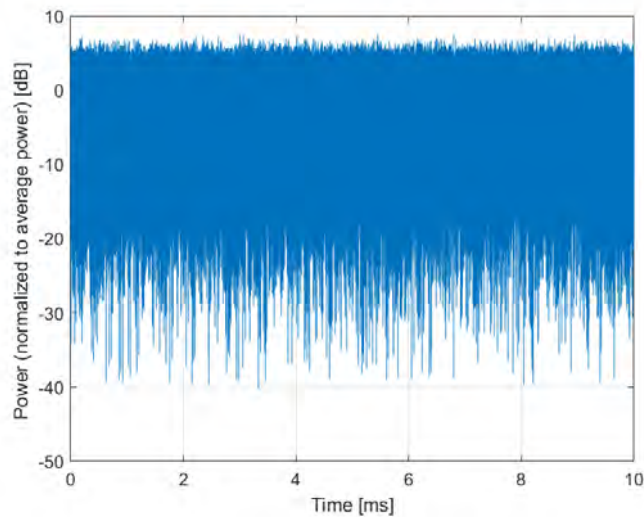
¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



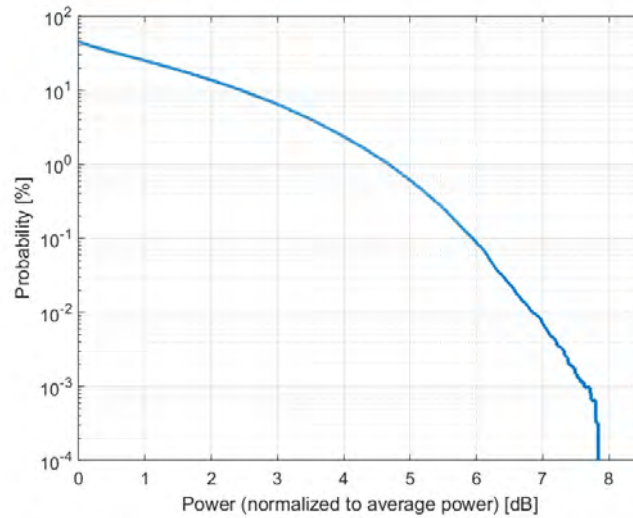
Time Domain

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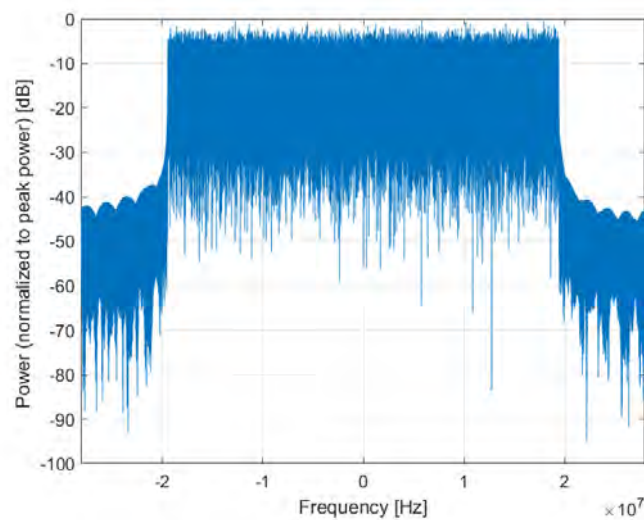
Name:	5G NR (DFT-s-OFDM, 100% RB, 40 MHz, QPSK, 15 kHz)
Group:	5G NR FR1 FDD
UID:	10950-AAC
PAR: ¹	5.94 dB
MIF: ²	-18.50 dB
Standard Reference:	SPEAG
Category:	Random amplitude modulation
Modulation:	QPSK
Frequency Band:	Band n25 (1850 - 1915 MHz) Band n66 (1710 - 1780 MHz) Band n1 (1920 - 1980 MHz) Band n3 (1710 - 1785 MHz) Band n7 (2500 - 2570 MHz) Band n86 (1710 - 1780 MHz) Band n97 (2300 - 2400 MHz) Band n98 (1880 - 1920 MHz) Validation band (0.0 - 6000.0 MHz)
Detailed Specification:	Multiplexing Scheme: DFT-s-OFDM Modulation Scheme: QPSK Subcarrier Spacing: 15 kHz Number RBs: 1 Data Type: PN9
Bandwidth:	40.0 MHz
Integration Time:	10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

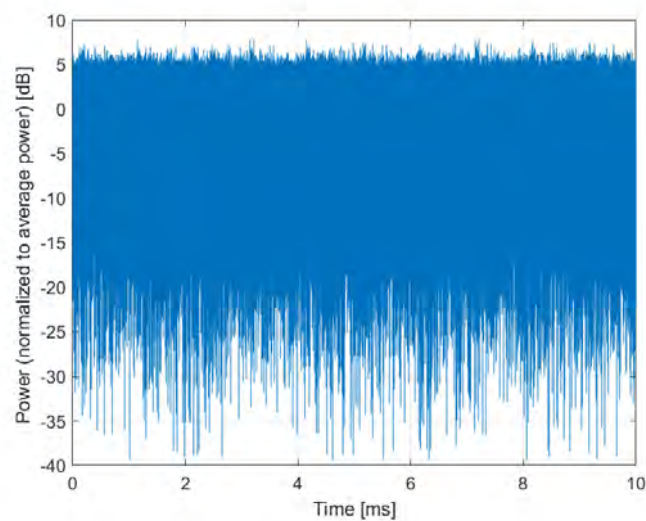
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain

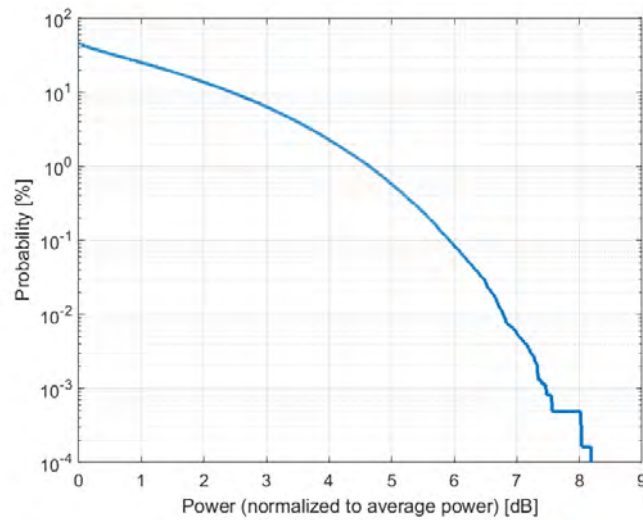


Time Domain

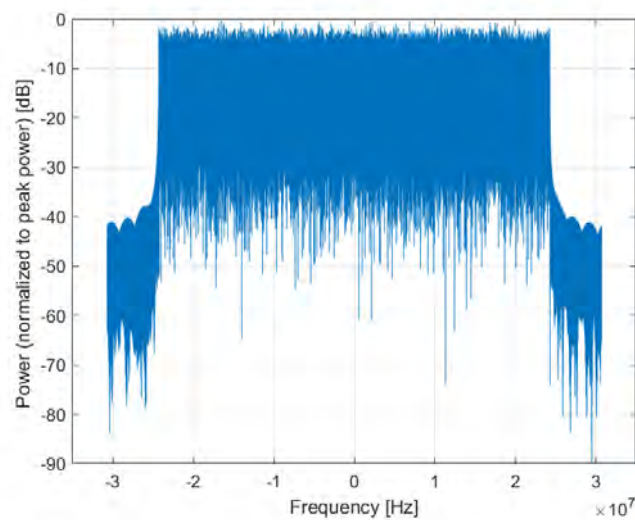
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Name:	5G NR (DFT-s-OFDM, 100% RB, 50 MHz, QPSK, 15 kHz)
Group:	5G NR FR1 FDD
UID:	10951-AAD
PAR: ¹	5.92 dB
MIF: ²	-18.56 dB
Standard Reference:	SPEAG
Category:	Random amplitude modulation
Modulation:	QPSK
Frequency Band:	Band n1 (1920 - 1980 MHz) Band n7 (2500 - 2570 MHz) Band n65 (1920 - 2010 MHz) Band n97 (2300 - 2400 MHz) Validation band (0.0 - 6000.0 MHz)
Detailed Specification:	Multiplexing Scheme: DFT-s-OFDM Modulation Scheme: QPSK Subcarrier Spacing: 15 kHz Number RBs: 1 Data Type: PN9
Bandwidth:	50.0 MHz
Integration Time:	10.0 ms

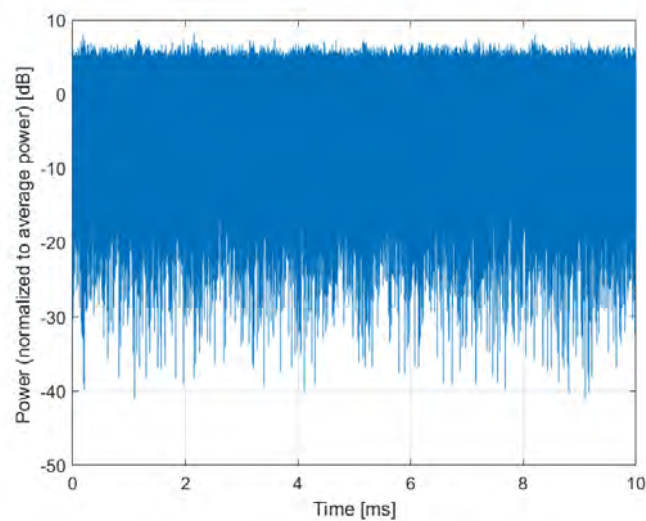
¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



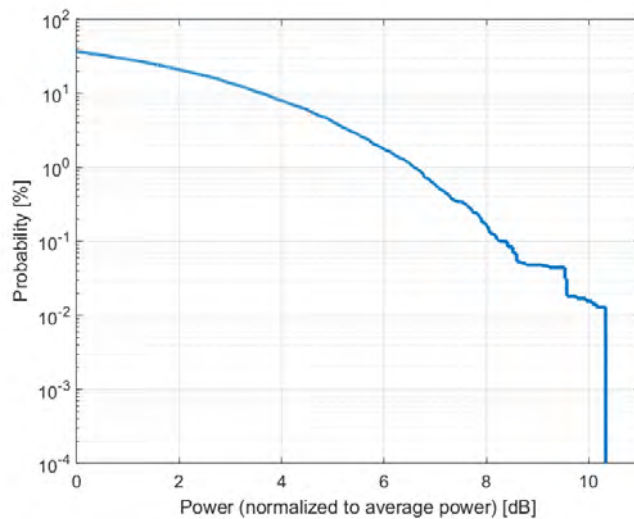
Time Domain

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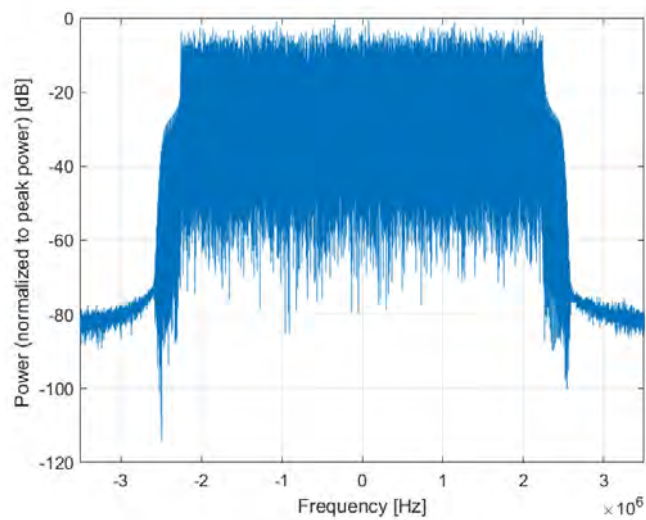
Name:	5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 15 kHz)
Group:	5G NR FR1 FDD
UID:	10952-AAA
PAR: ¹	8.25 dB
MIF: ²	-16.10 dB
Standard Reference:	SPEAG
Category:	Random amplitude modulation
Modulation:	64-QAM
Frequency Band:	Validation band (0.0 - 6000.0 MHz)
Detailed Specification:	Multiplexing Scheme: CP-OFDM Modulation Scheme: 64-QAM Subcarrier Spacing: 15 kHz Model: TM 3.1 Data Type: PN9
Bandwidth:	5.0 MHz
Integration Time:	10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

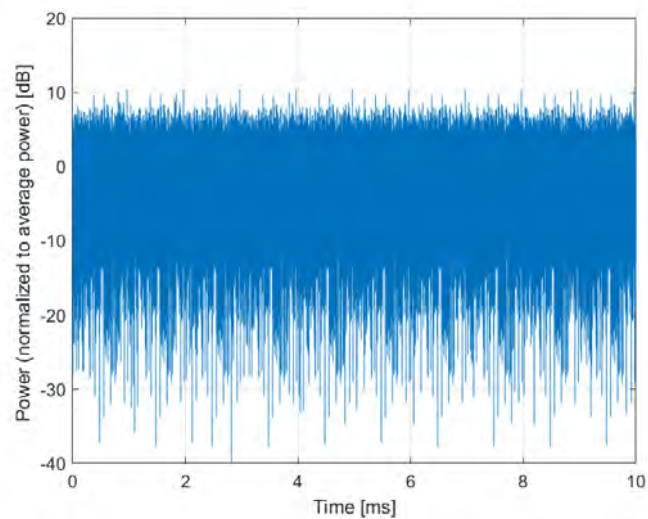
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain

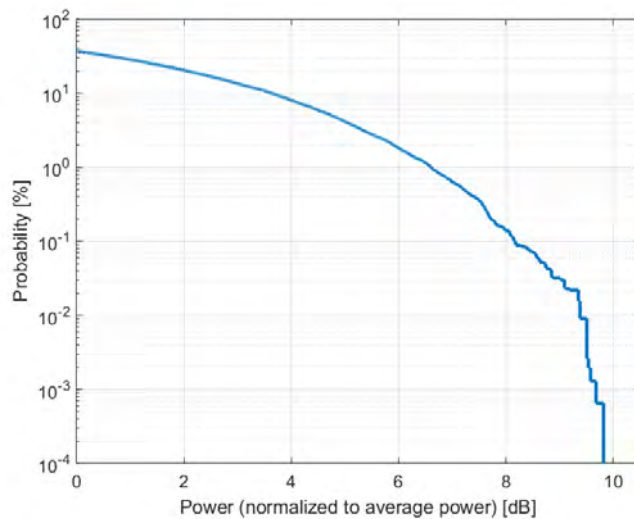


Time Domain

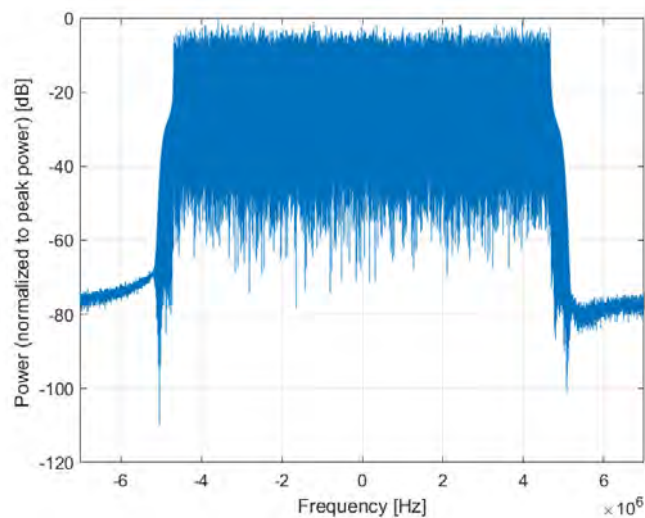
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Name:	5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 15 kHz)
Group:	5G NR FR1 FDD
UID:	10953-AAA
PAR: ¹	8.15 dB
MIF: ²	-18.27 dB
Standard Reference:	SPEAG
Category:	Random amplitude modulation
Modulation:	64-QAM
Frequency Band:	Validation band (0.0 - 6000.0 MHz)
Detailed Specification:	Multiplexing Scheme: CP-OFDM Modulation Scheme: 64-QAM Subcarrier Spacing: 15 kHz Model: TM 3.1 Data Type: PN9
Bandwidth:	10.0 MHz
Integration Time:	10.0 ms

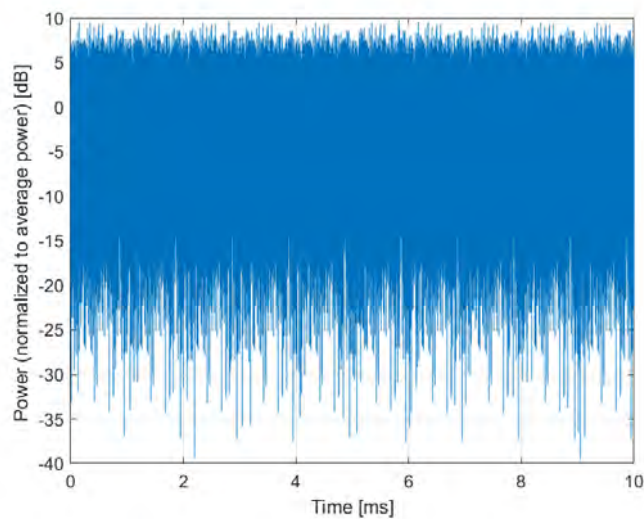
¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



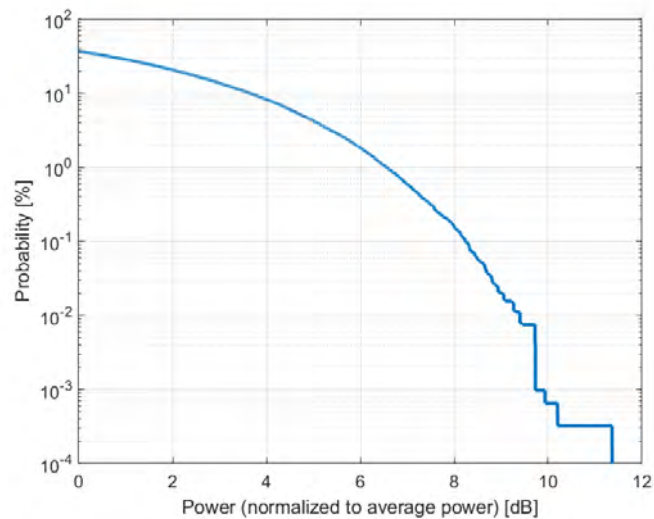
Time Domain

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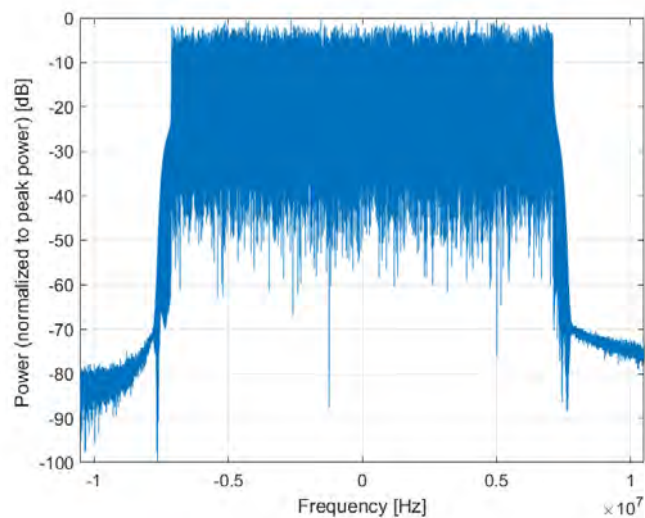
Name:	5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 15 kHz)
Group:	5G NR FR1 FDD
UID:	10954-AAA
PAR: ¹	8.23 dB
MIF: ²	-20.40 dB
Standard Reference:	SPEAG
Category:	Random amplitude modulation
Modulation:	64-QAM
Frequency Band:	Validation band (0.0 - 6000.0 MHz)
Detailed Specification:	Multiplexing Scheme: CP-OFDM Modulation Scheme: 64-QAM Subcarrier Spacing: 15 kHz Model: TM 3.1 Data Type: PN9
Bandwidth:	15.0 MHz
Integration Time:	10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

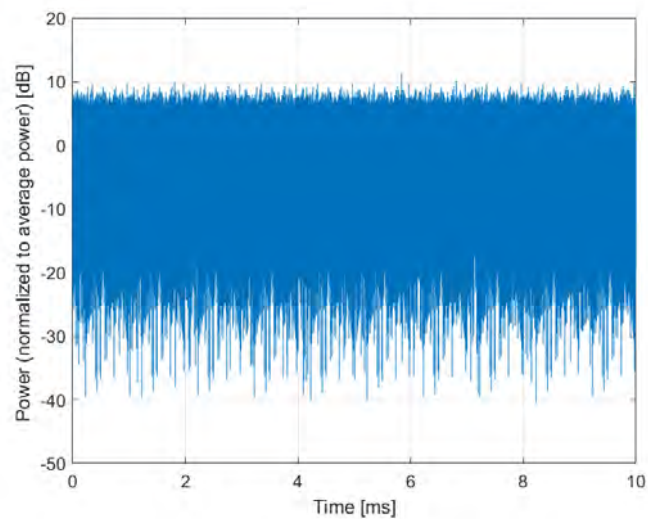
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain

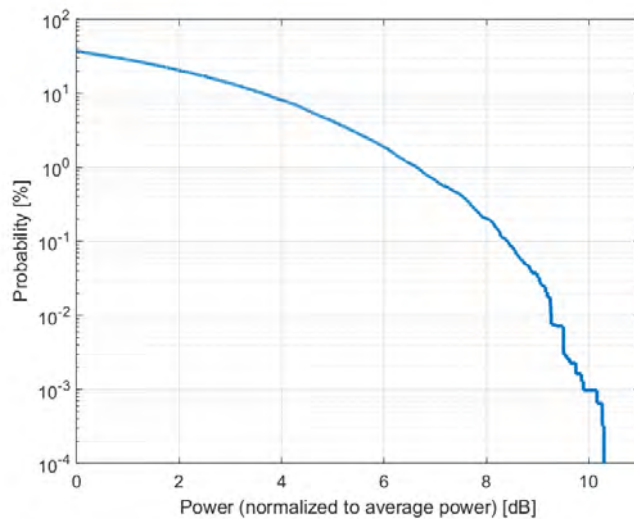


Time Domain

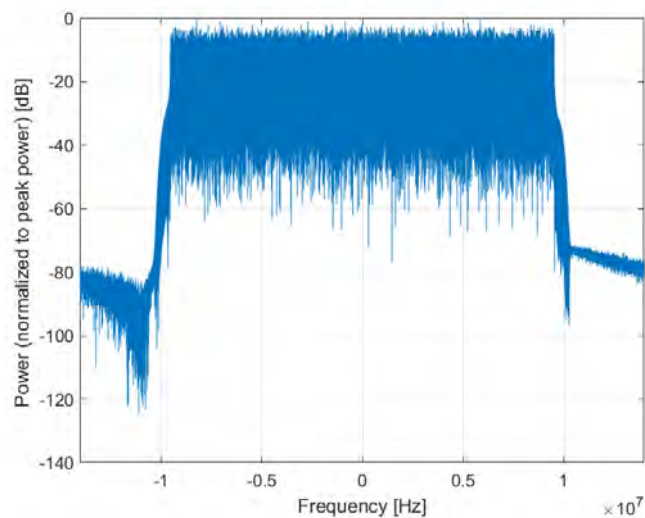
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Name:	5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 15 kHz)
Group:	5G NR FR1 FDD
UID:	10955-AAA
PAR: ¹	8.42 dB
MIF: ²	-22.55 dB
Standard Reference:	SPEAG
Category:	Random amplitude modulation
Modulation:	64-QAM
Frequency Band:	Validation band (0.0 - 6000.0 MHz)
Detailed Specification:	Multiplexing Scheme: CP-OFDM Modulation Scheme: 64-QAM Subcarrier Spacing: 15 kHz Model: TM 3.1 Data Type: PN9
Bandwidth:	20.0 MHz
Integration Time:	10.0 ms

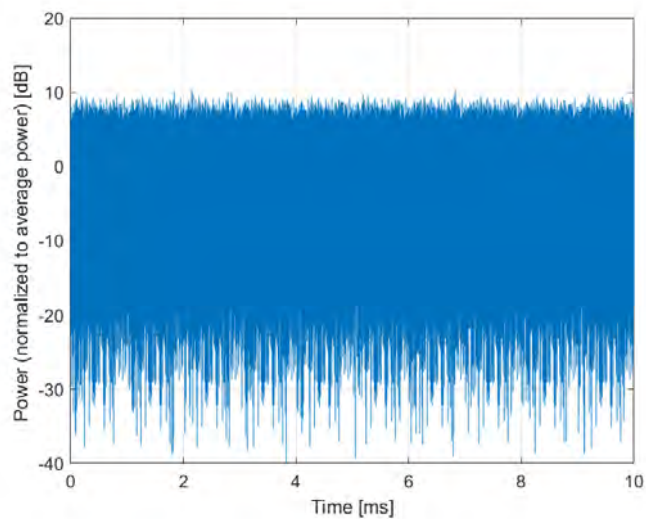
¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



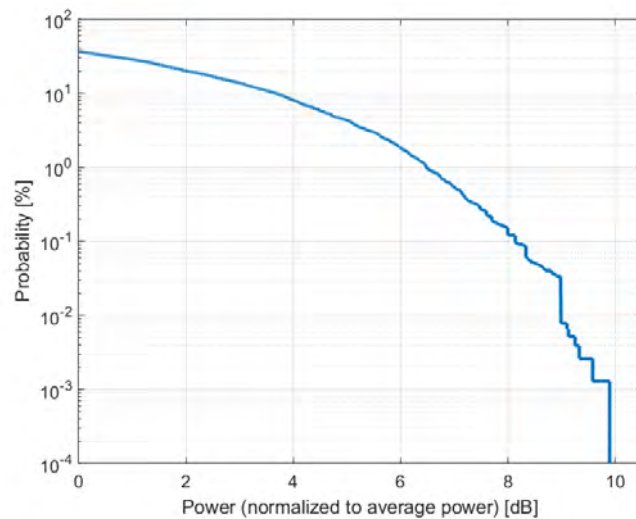
Time Domain

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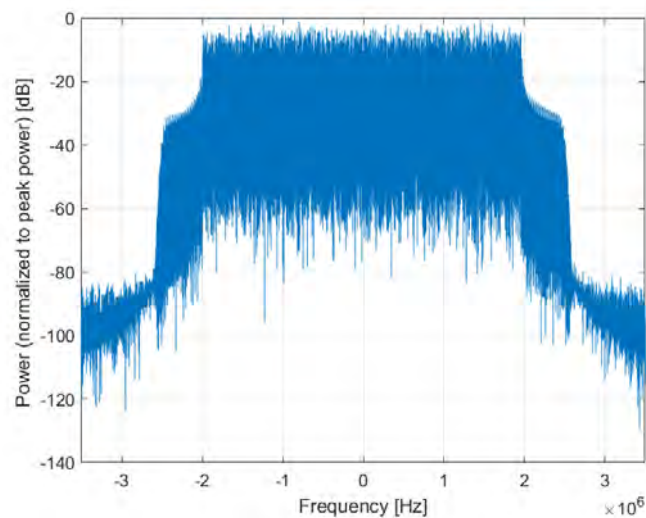
Name:	5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 30 kHz)
Group:	5G NR FR1 FDD
UID:	10956-AAA
PAR: ¹	8.14 dB
MIF: ²	-16.37 dB
Standard Reference:	SPEAG
Category:	Random amplitude modulation
Modulation:	64-QAM
Frequency Band:	Validation band (0.0 - 6000.0 MHz)
Detailed Specification:	Multiplexing Scheme: CP-OFDM Modulation Scheme: 64-QAM Subcarrier Spacing: 30 kHz Model: TM 3.1 Data Type: PN9
Bandwidth:	5.0 MHz
Integration Time:	10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

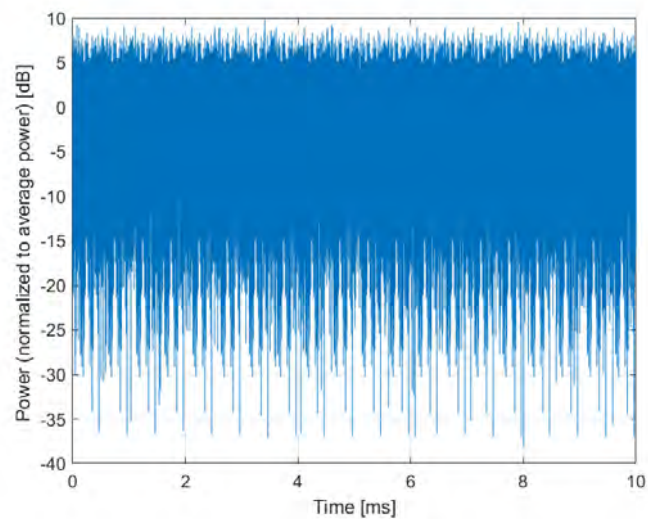
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



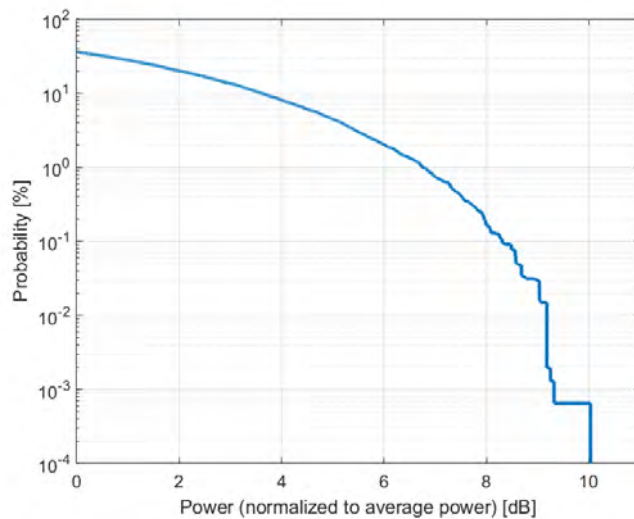
Time Domain

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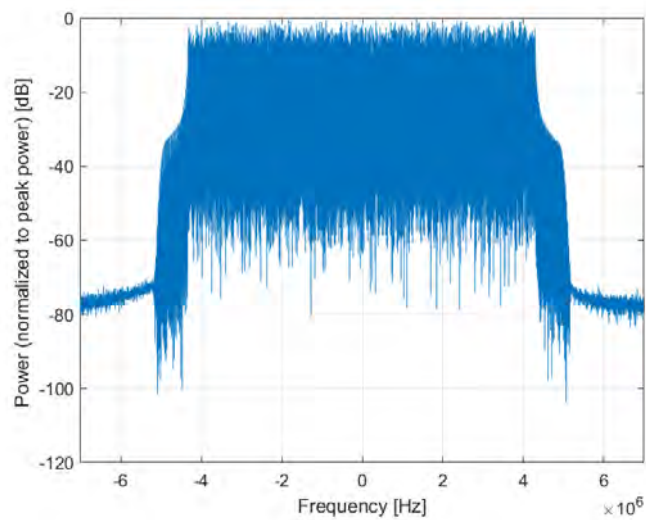
Name:	5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 30 kHz)
Group:	5G NR FR1 FDD
UID:	10957-AAA
PAR: ¹	8.31 dB
MIF: ²	-18.08 dB
Standard Reference:	SPEAG
Category:	Random amplitude modulation
Modulation:	64-QAM
Frequency Band:	Validation band (0.0 - 6000.0 MHz)
Detailed Specification:	Multiplexing Scheme: CP-OFDM Modulation Scheme: 64-QAM Subcarrier Spacing: 30 kHz Model: TM 3.1 Data Type: PN9
Bandwidth:	10.0 MHz
Integration Time:	10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

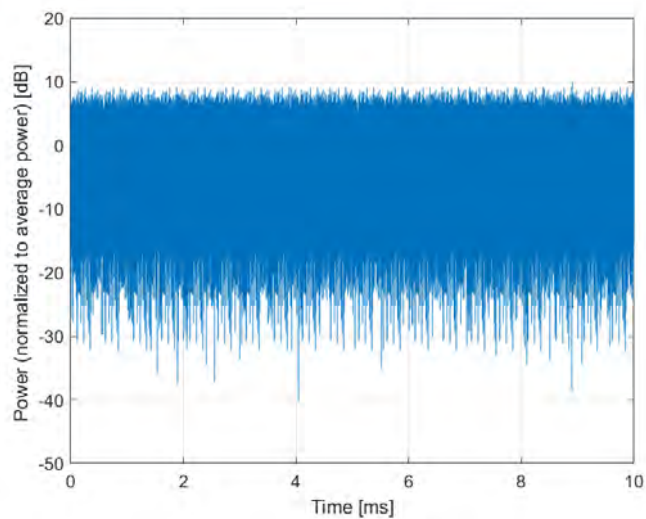
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



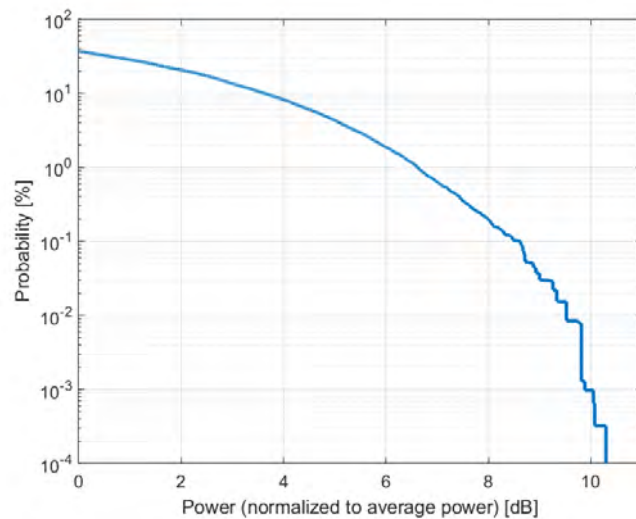
Time Domain

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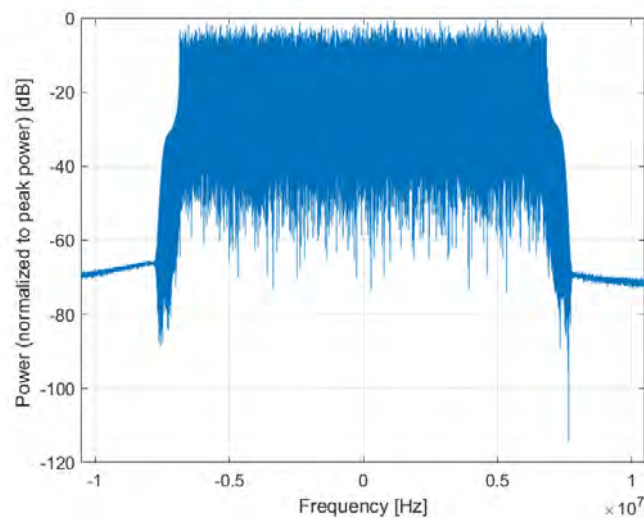
Name:	5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 30 kHz)
Group:	5G NR FR1 FDD
UID:	10958-AAA
PAR: ¹	8.61 dB
MIF: ²	-20.42 dB
Standard Reference:	SPEAG
Category:	Random amplitude modulation
Modulation:	64-QAM
Frequency Band:	Validation band (0.0 - 6000.0 MHz)
Detailed Specification:	Multiplexing Scheme: CP-OFDM Modulation Scheme: 64-QAM Subcarrier Spacing: 30 kHz Model: TM 3.1 Data Type: PN9
Bandwidth:	15.0 MHz
Integration Time:	10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

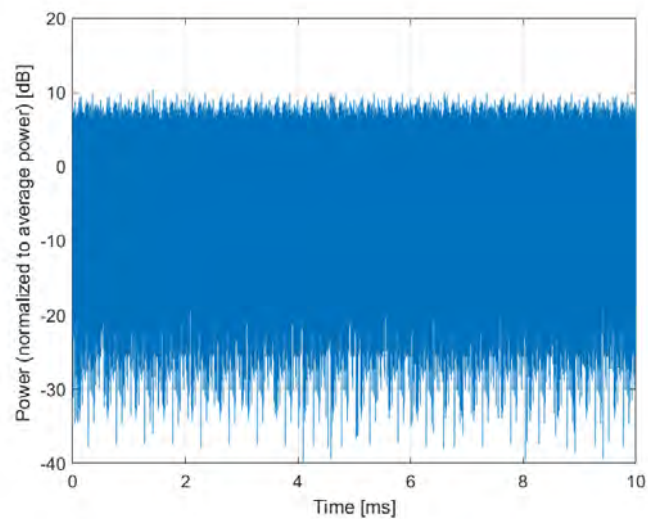
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



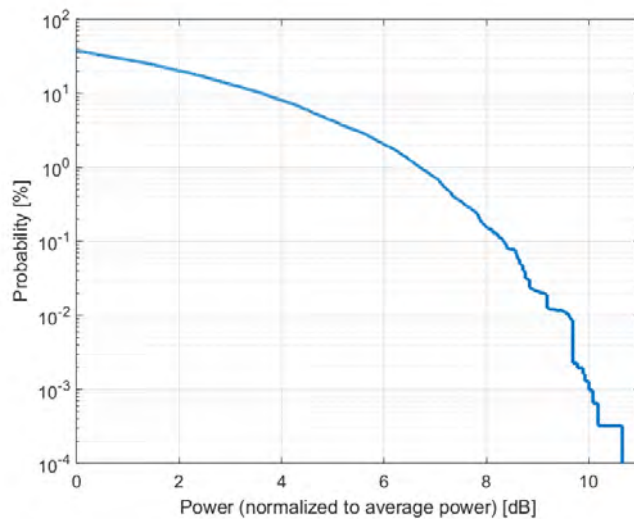
Time Domain

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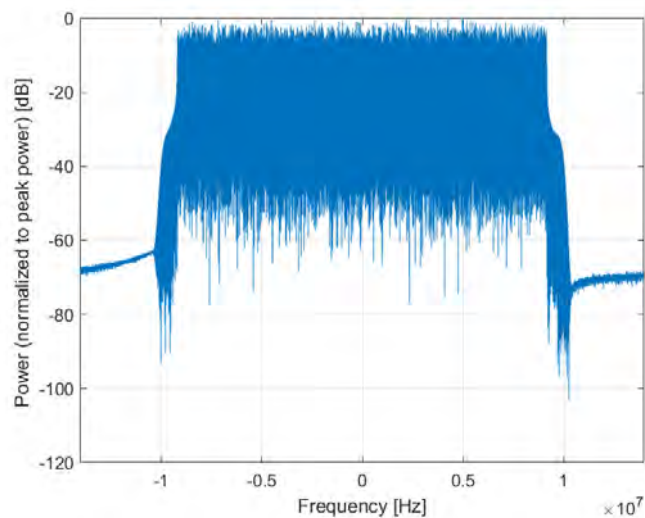
Name:	5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 30 kHz)
Group:	5G NR FR1 FDD
UID:	10959-AAA
PAR: ¹	8.33 dB
MIF: ²	-22.82 dB
Standard Reference:	SPEAG
Category:	Random amplitude modulation
Modulation:	64-QAM
Frequency Band:	Validation band (0.0 - 6000.0 MHz)
Detailed Specification:	Multiplexing Scheme: CP-OFDM Modulation Scheme: 64-QAM Subcarrier Spacing: 30 kHz Model: TM 3.1 Data Type: PN9
Bandwidth:	20.0 MHz
Integration Time:	10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

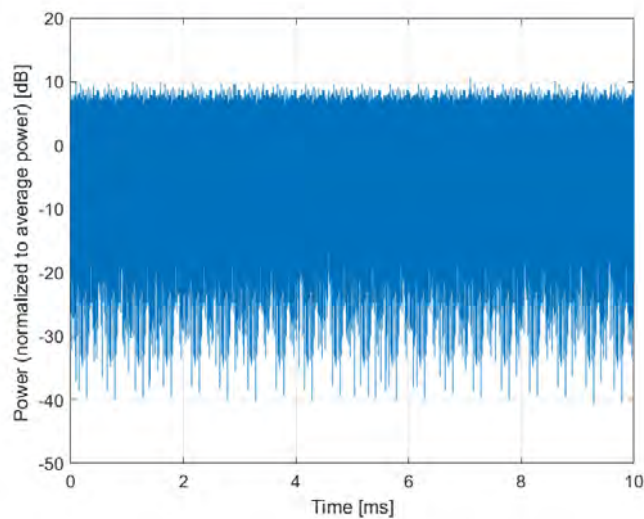
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 15 kHz)**

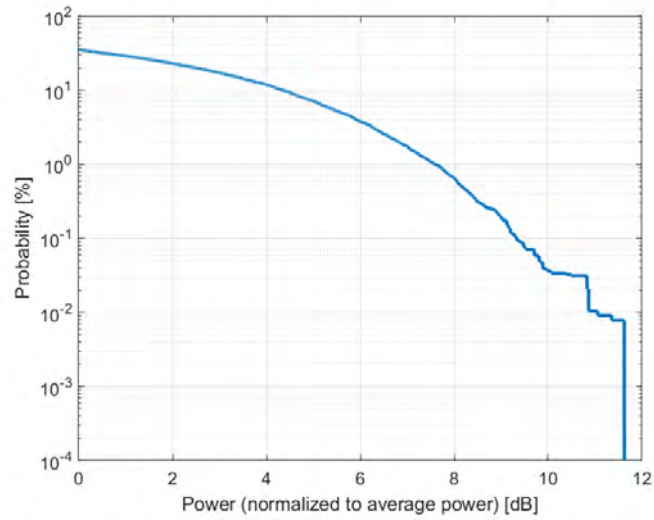
Group: 5G NR FR1 TDD
UID: 10960-AAE

PAR: ¹ **9.32 dB**
MIF: ² **-4.24 dB**

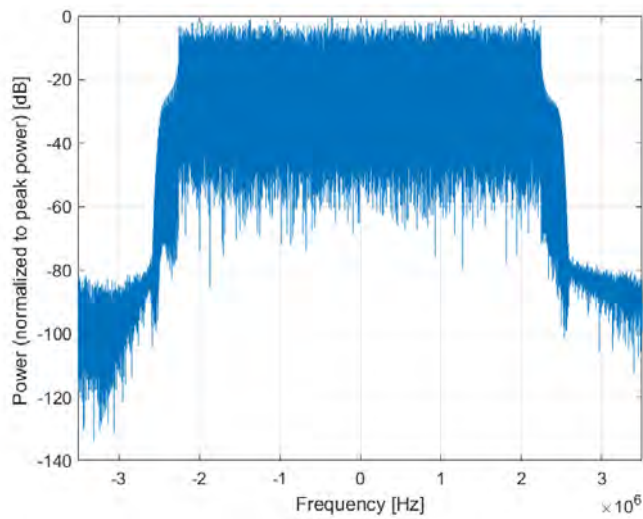
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: 64-QAM
Frequency Band: Band n34 (2010 - 2025 MHz)
Band n38 (2570 - 2620 MHz)
Band n39 (1880 - 1920 MHz)
Band n40 (2300 - 2400 MHz)
Band n48 (3550 - 3700 MHz)
Band n50 (1432 - 1517 MHz)
Band n51 (1427 - 1432 MHz)
Band n53 (2483.5 - 2495 MHz)
Band n101 (1900 - 1910 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Multiplexing Scheme: CP-OFDM
Modulation Scheme: 64-QAM
Subcarrier Spacing: 15 kHz
Model: TM 3.1
Data Type: PN9
Bandwidth: 5.0 MHz
Integration Time: 10.0 ms

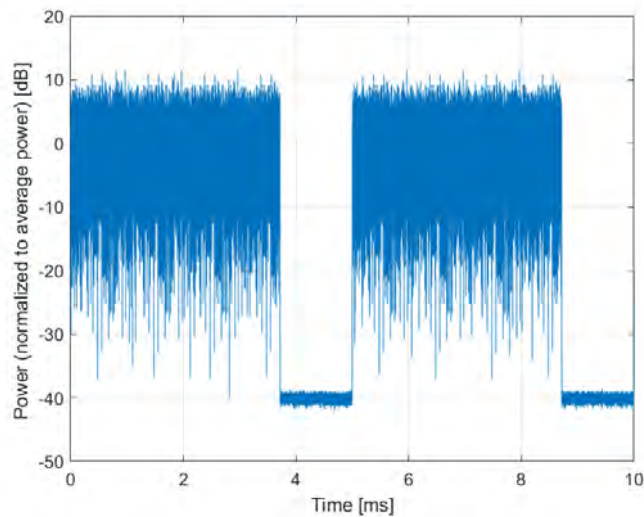
¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain

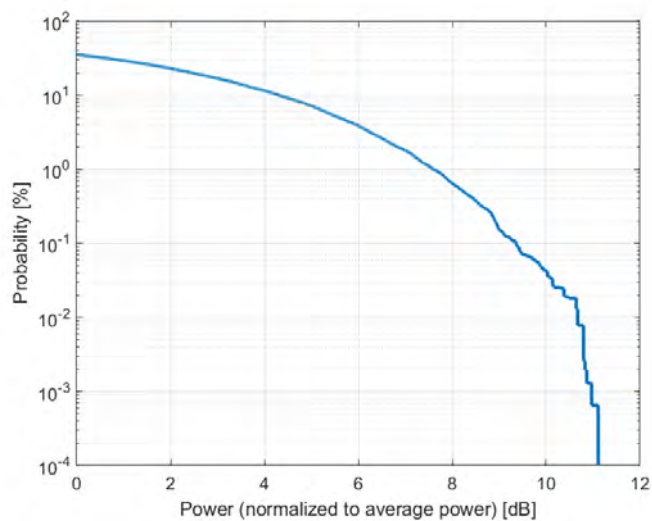


Time Domain

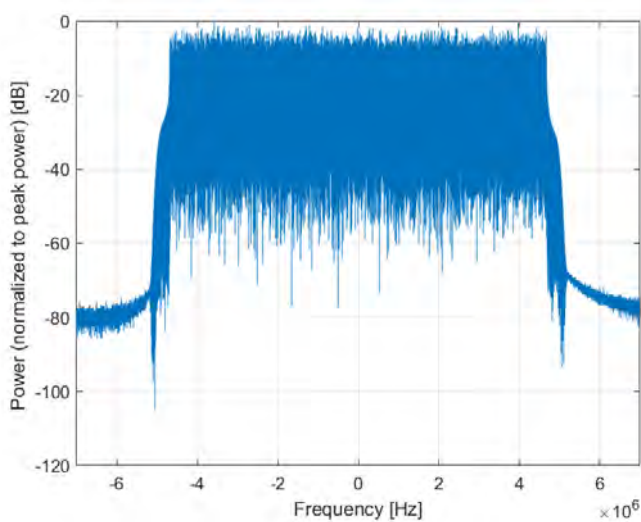
**Calibration Laboratory of
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Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name:	5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 15 kHz)
Group:	5G NR FR1 TDD
UID:	10961-AAC
PAR: ¹	9.36 dB
MIF: ²	-4.22 dB
Standard Reference:	SPEAG
Category:	Random amplitude modulation
Modulation:	64-QAM
Frequency Band:	Band n34 (2010 - 2025 MHz) Band n38 (2570 - 2620 MHz) Band n39 (1880 - 1920 MHz) Band n40 (2300 - 2400 MHz) Band n41 (2496 - 2690 MHz) Band n48 (3550 - 3700 MHz) Band n50 (1432 - 1517 MHz) Band n77 (3300 - 4200 MHz) Band n78 (3300 - 3800 MHz) Band n53 (2483.5 - 2495 MHz) Band n90 (2496 - 2690 MHz) Band n47 (5855 - 5925 MHz) Band n46 (5150 - 5925 MHz) Band n101 (1900 - 1910 MHz) Validation band (0.0 - 6000.0 MHz)
Detailed Specification:	Multiplexing Scheme: CP-OFDM Modulation Scheme: 64-QAM Subcarrier Spacing: 15 kHz Model: TM 3.1 Data Type: PN9
Bandwidth:	10.0 MHz
Integration Time:	10.0 ms

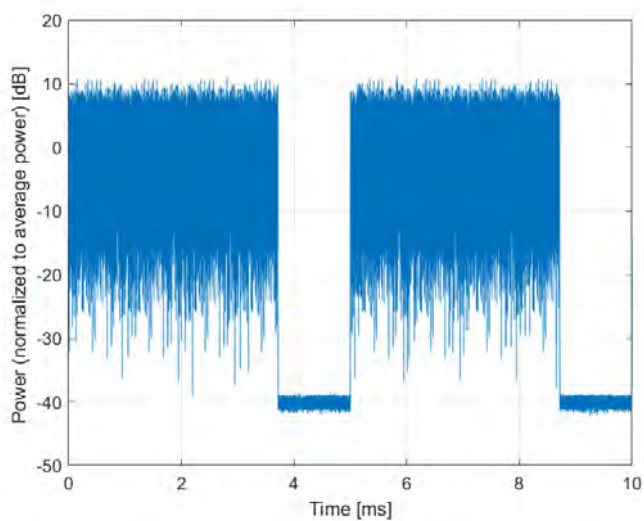
¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
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Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 15 kHz)**

Group: 5G NR FR1 TDD

UID: 10962-AAB

PAR: ¹ **9.40 dB**

MIF: ² **-4.22 dB**

Standard Reference: SPEAG

Category: Random amplitude modulation

Modulation: 64-QAM

Frequency Band: Band n34 (2010 - 2025 MHz)
Band n38 (2570 - 2620 MHz)
Band n39 (1880 - 1920 MHz)
Band n40 (2300 - 2400 MHz)
Band n41 (2496 - 2690 MHz)
Band n48 (3550 - 3700 MHz)
Band n50 (1432 - 1517 MHz)
Band n77 (3300 - 4200 MHz)
Band n78 (3300 - 3800 MHz)
Band n90 (2496 - 2690 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Multiplexing Scheme: CP-OFDM

Modulation Scheme: 64-QAM

Subcarrier Spacing: 15 kHz

Model: TM 3.1

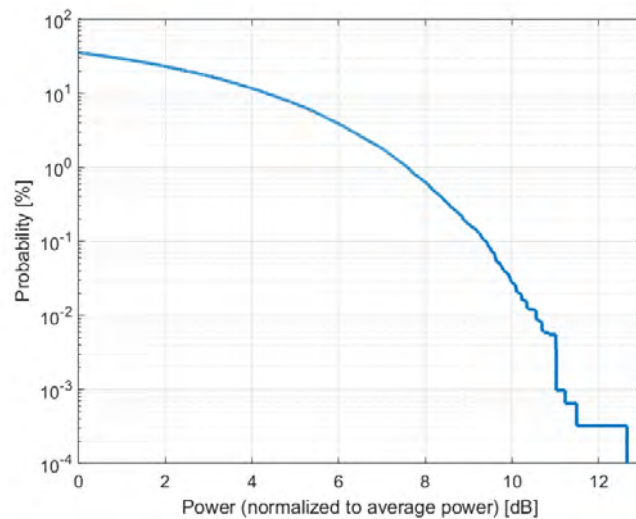
Data Type: PN9

Bandwidth: 15.0 MHz

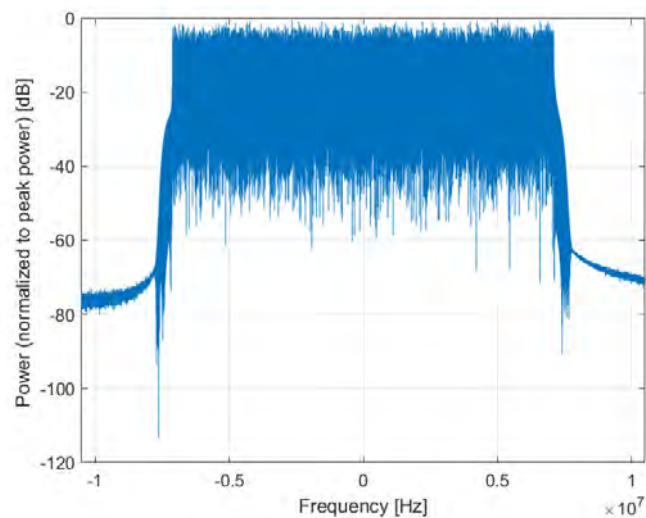
Integration Time: 10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

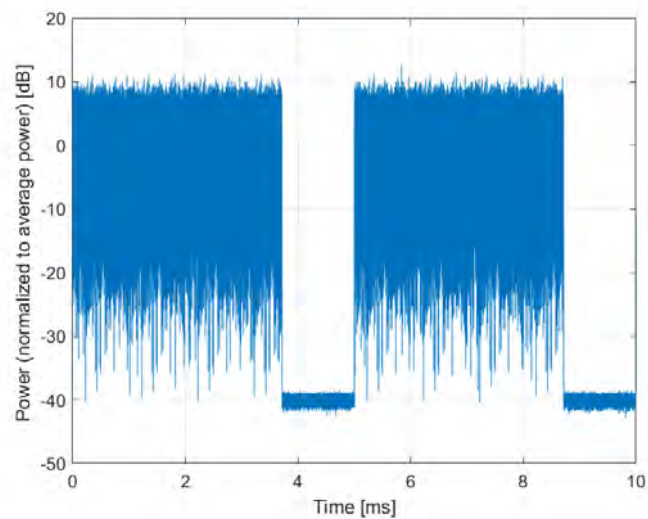
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain

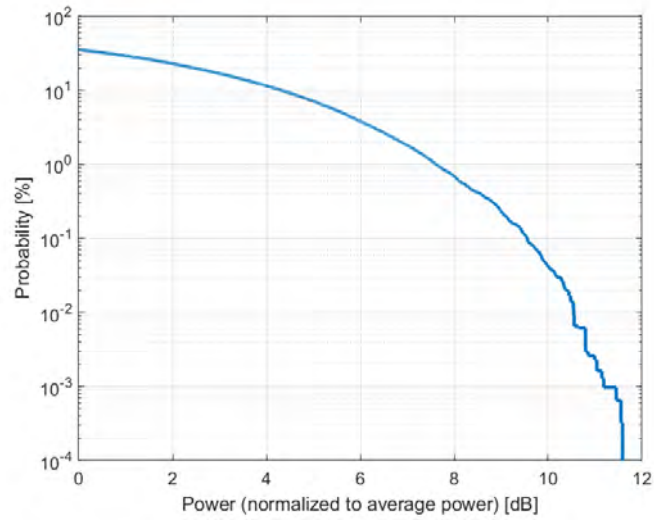


Time Domain

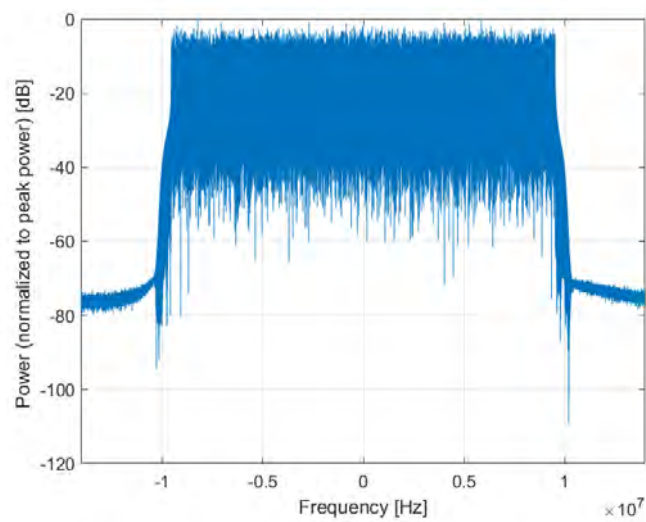
**Calibration Laboratory of
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Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name:	5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 15 kHz)
Group:	5G NR FR1 TDD
UID:	10963-AAC
PAR: ¹	9.55 dB
MIF: ²	-4.23 dB
Standard Reference:	SPEAG
Category:	Random amplitude modulation
Modulation:	64-QAM
Frequency Band:	Band n38 (2570 - 2620 MHz) Band n39 (1880 - 1920 MHz) Band n40 (2300 - 2400 MHz) Band n41 (2496 - 2690 MHz) Band n48 (3550 - 3700 MHz) Band n50 (1432 - 1517 MHz) Band n77 (3300 - 4200 MHz) Band n78 (3300 - 3800 MHz) Band n90 (2496 - 2690 MHz) Band n47 (5855 - 5925 MHz) Band n46 (5150 - 5925 MHz) Band n96 (5925 - 7125 MHz) Band n102 (5925 - 6425 MHz) Band n104 (6425 - 7125 MHz) Validation band (0.0 - 6000.0 MHz)
Detailed Specification:	Multiplexing Scheme: CP-OFDM Modulation Scheme: 64-QAM Subcarrier Spacing: 15 kHz Model: TM 3.1 Data Type: PN9
Bandwidth:	20.0 MHz
Integration Time:	10.0 ms

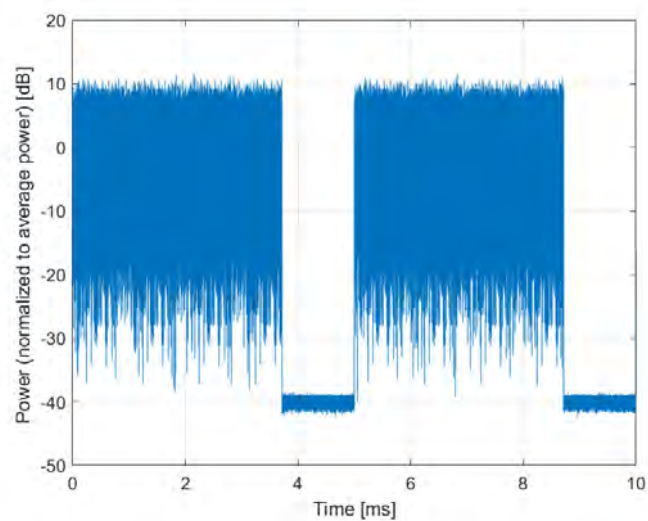
¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
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Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 30 kHz)**

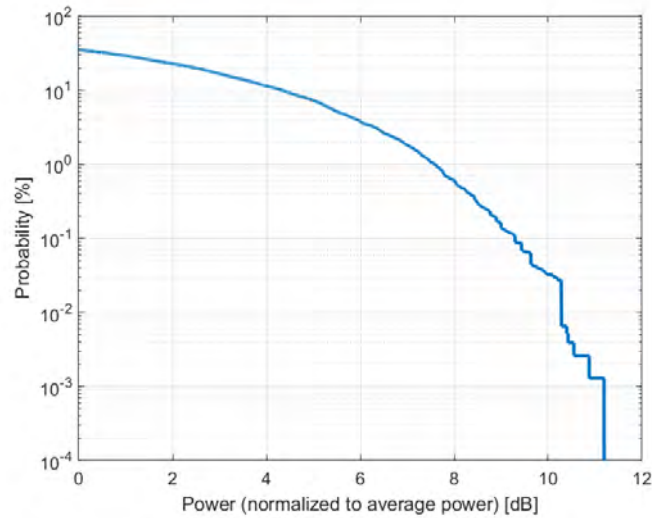
Group: 5G NR FR1 TDD
UID: 10964-AAE

PAR: ¹ **9.29 dB**
MIF: ² **-4.24 dB**

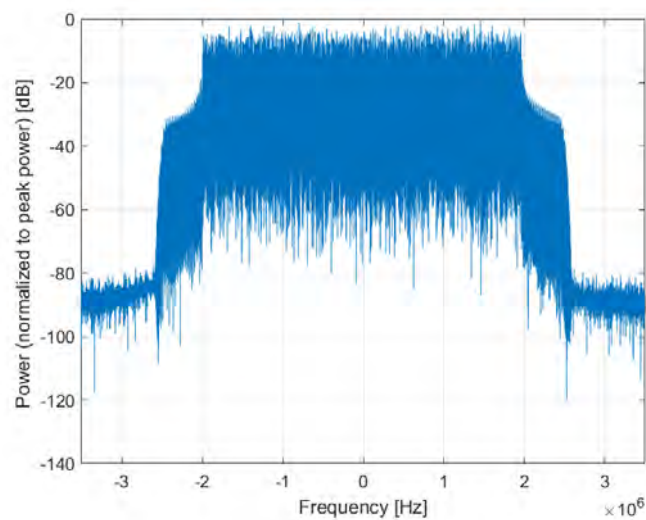
Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: 64-QAM
Frequency Band: Band n34 (2010 - 2025 MHz)
Band n38 (2570 - 2620 MHz)
Band n39 (1880 - 1920 MHz)
Band n40 (2300 - 2400 MHz)
Band n48 (3550 - 3700 MHz)
Band n50 (1432 - 1517 MHz)
Band n51 (1427 - 1432 MHz)
Band n53 (2483.5 - 2495 MHz)
Band n101 (1900 - 1910 MHz)
Validation band (0.0 - 6000.0 MHz)

Detailed Specification: Multiplexing Scheme: CP-OFDM
Modulation Scheme: 64-QAM
Subcarrier Spacing: 30 kHz
Model: TM 3.1
Data Type: PN9
Bandwidth: 5.0 MHz
Integration Time: 10.0 ms

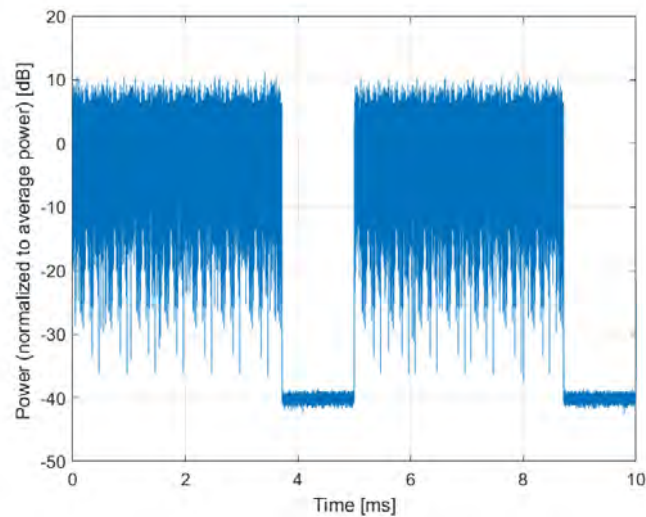
¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain

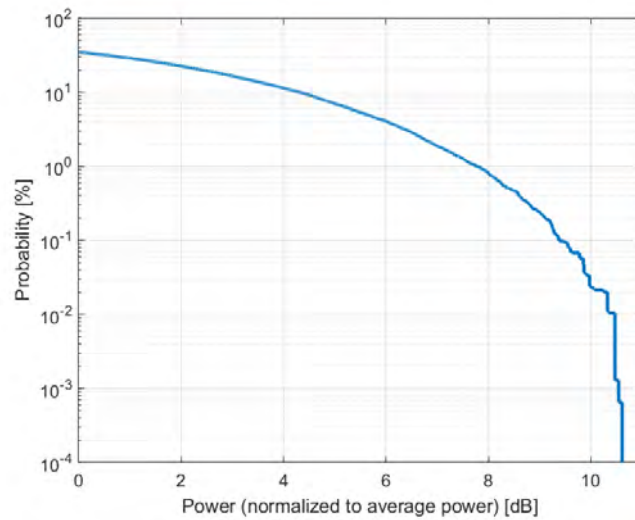


Time Domain

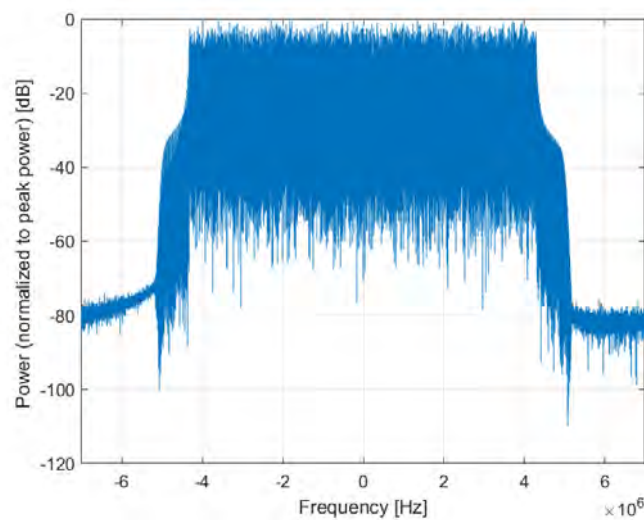
**Calibration Laboratory of
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Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name:	5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 30 kHz)
Group:	5G NR FR1 TDD
UID:	10965-AAC
PAR: ¹	9.37 dB
MIF: ²	-4.23 dB
Standard Reference:	SPEAG
Category:	Random amplitude modulation
Modulation:	64-QAM
Frequency Band:	Band n34 (2010 - 2025 MHz) Band n38 (2570 - 2620 MHz) Band n39 (1880 - 1920 MHz) Band n40 (2300 - 2400 MHz) Band n41 (2496 - 2690 MHz) Band n48 (3550 - 3700 MHz) Band n50 (1432 - 1517 MHz) Band n77 (3300 - 4200 MHz) Band n78 (3300 - 3800 MHz) Band n53 (2483.5 - 2495 MHz) Band n90 (2496 - 2690 MHz) Band n47 (5855 - 5925 MHz) Band n46 (5150 - 5925 MHz) Band n101 (1900 - 1910 MHz) Validation band (0.0 - 6000.0 MHz)
Detailed Specification:	Multiplexing Scheme: CP-OFDM Modulation Scheme: 64-QAM Subcarrier Spacing: 30 kHz Model: TM 3.1 Data Type: PN9
Bandwidth:	10.0 MHz
Integration Time:	10.0 ms

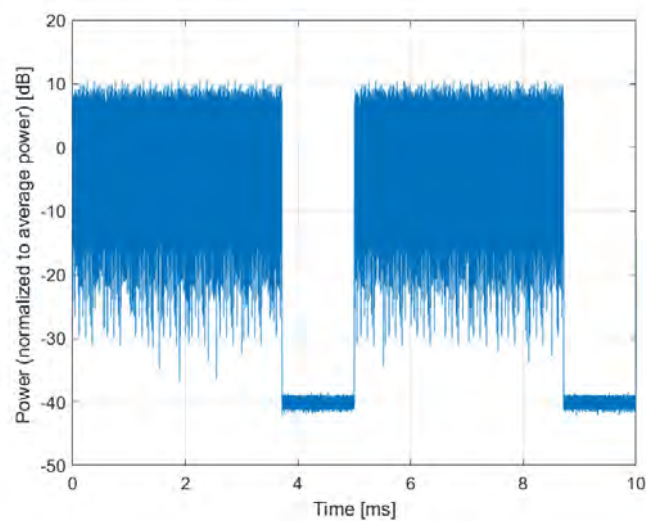
¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain

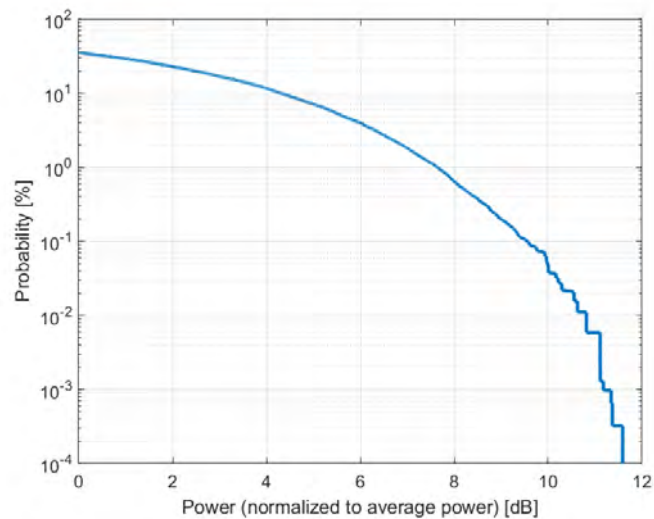


Time Domain

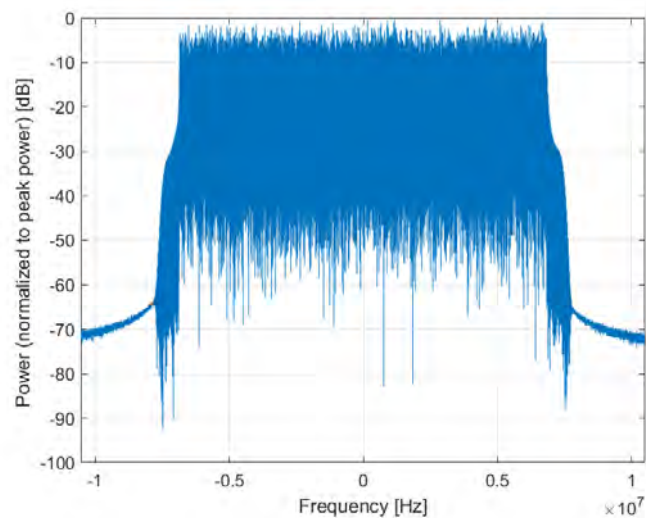
**Calibration Laboratory of
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Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name:	5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 30 kHz)
Group:	5G NR FR1 TDD
UID:	10966-AAB
PAR: ¹	9.55 dB
MIF: ²	-4.22 dB
Standard Reference:	SPEAG
Category:	Random amplitude modulation
Modulation:	64-QAM
Frequency Band:	Band n34 (2010 - 2025 MHz) Band n38 (2570 - 2620 MHz) Band n39 (1880 - 1920 MHz) Band n40 (2300 - 2400 MHz) Band n41 (2496 - 2690 MHz) Band n48 (3550 - 3700 MHz) Band n50 (1432 - 1517 MHz) Band n77 (3300 - 4200 MHz) Band n78 (3300 - 3800 MHz) Band n90 (2496 - 2690 MHz) Validation band (0.0 - 6000.0 MHz)
Detailed Specification:	Multiplexing Scheme: CP-OFDM Modulation Scheme: 64-QAM Subcarrier Spacing: 30 kHz Model: TM 3.1 Data Type: PN9
Bandwidth:	15.0 MHz
Integration Time:	10.0 ms

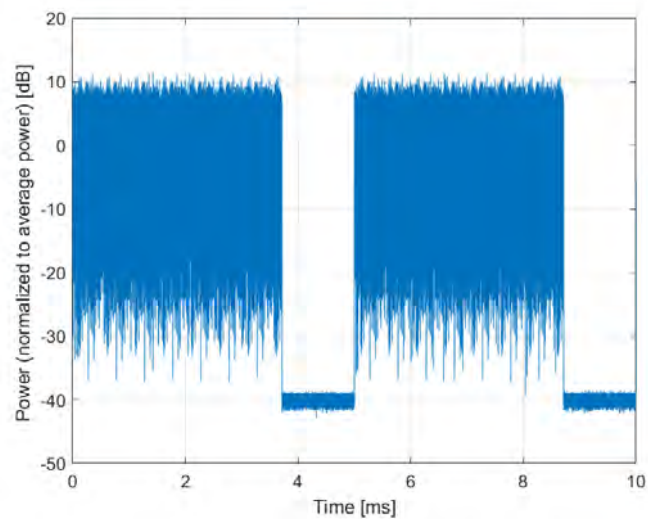
¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain

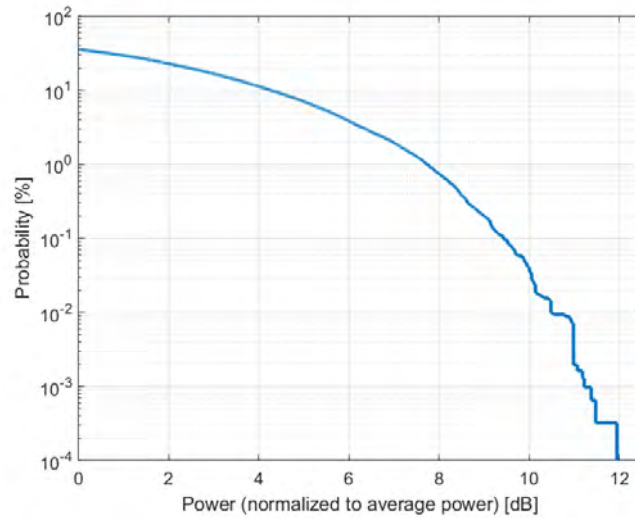


Time Domain

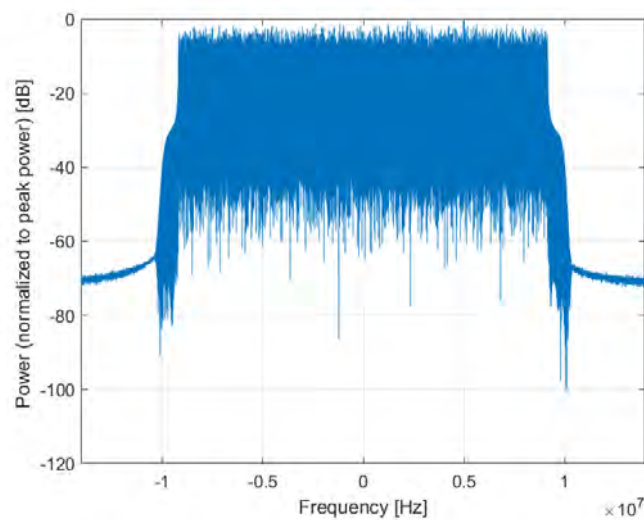
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Zeughausstrasse 43, 8004 Zurich, Switzerland

Name:	5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 30 kHz)
Group:	5G NR FR1 TDD
UID:	10967-AAC
PAR: ¹	9.42 dB
MIF: ²	-4.23 dB
Standard Reference:	SPEAG
Category:	Random amplitude modulation
Modulation:	64-QAM
Frequency Band:	Band n38 (2570 - 2620 MHz) Band n39 (1880 - 1920 MHz) Band n40 (2300 - 2400 MHz) Band n41 (2496 - 2690 MHz) Band n48 (3550 - 3700 MHz) Band n50 (1432 - 1517 MHz) Band n77 (3300 - 4200 MHz) Band n78 (3300 - 3800 MHz) Band n90 (2496 - 2690 MHz) Band n47 (5855 - 5925 MHz) Band n46 (5150 - 5925 MHz) Band n96 (5925 - 7125 MHz) Band n102 (5925 - 6425 MHz) Band n104 (6425 - 7125 MHz) Validation band (0.0 - 6000.0 MHz)
Detailed Specification:	Multiplexing Scheme: CP-OFDM Modulation Scheme: 64-QAM Subcarrier Spacing: 30 kHz Model: TM 3.1 Data Type: PN9
Bandwidth:	20.0 MHz
Integration Time:	10.0 ms

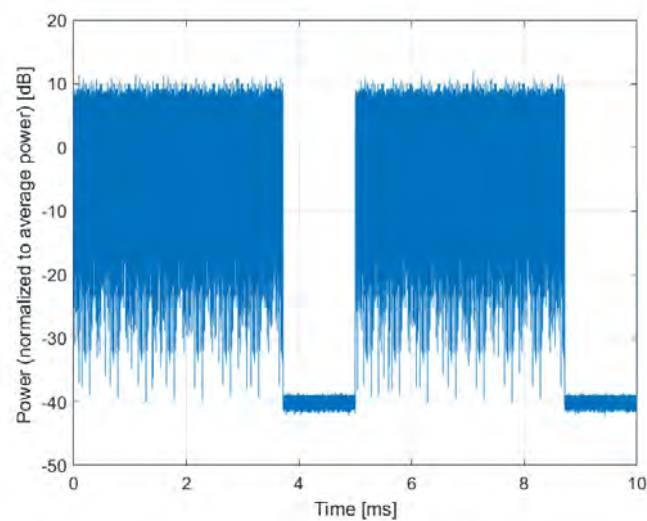
¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **5G NR DL (CP-OFDM, TM 3.1, 100 MHz, 64-QAM, 30 kHz)**

Group: 5G NR FR1 TDD
UID: 10968-AAD

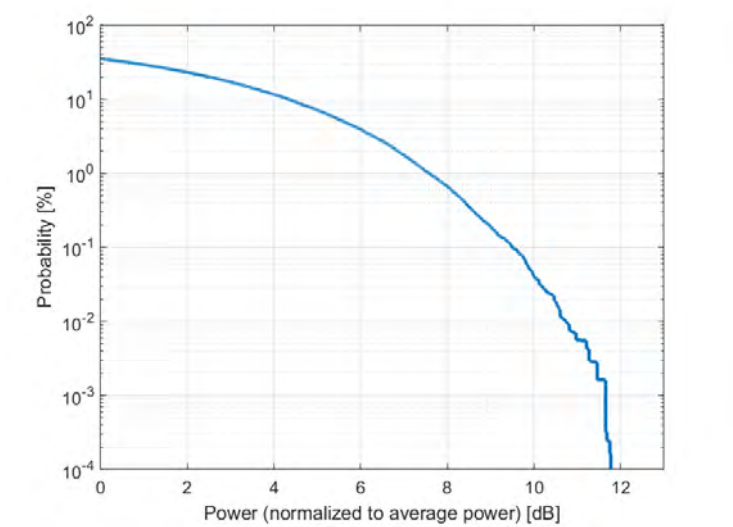
PAR: ¹ **9.49 dB**
MIF: ² **-4.23 dB**

Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: 64-QAM
Frequency Band: Band n41 (2496 - 2690 MHz)
Band n48 (3550 - 3700 MHz)
Band n77 (3300 - 4200 MHz)
Band n78 (3300 - 3800 MHz)
Band n79 (4400 - 5000 MHz)
Band n90 (2496 - 2690 MHz)
Band n46 (5150 - 5925 MHz)
Band n96 (5925 - 7125 MHz)
Band n102 (5925 - 6425 MHz)
Band n104 (6425 - 7125 MHz)
Validation band (0.0 - 6000.0 MHz)

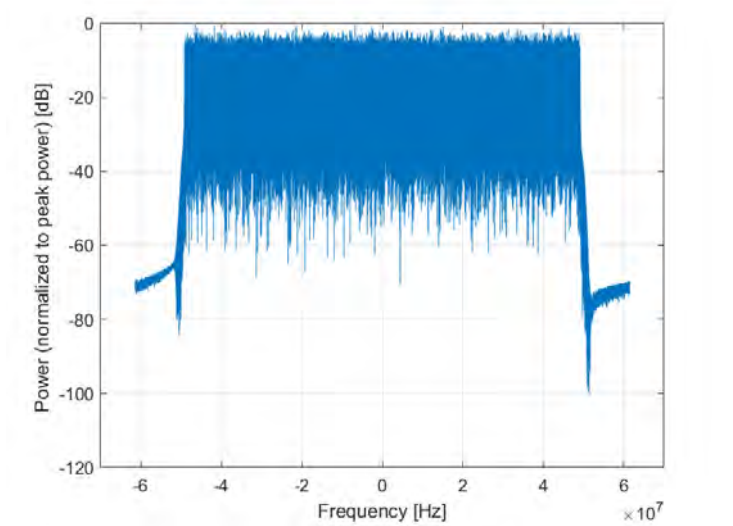
Detailed Specification: Multiplexing Scheme: CP-OFDM
Modulation Scheme: 64-QAM
Subcarrier Spacing: 30 kHz
Model: TM 3.1
Data Type: PN9

Bandwidth: 100.0 MHz
Integration Time: 10.0 ms

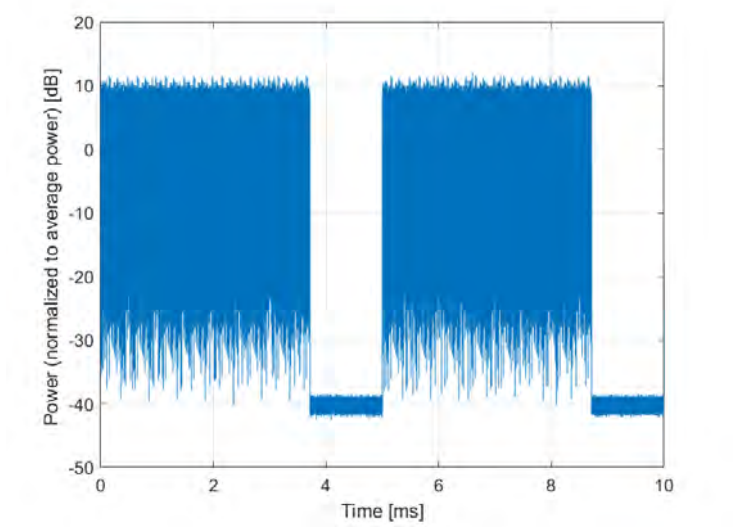
¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



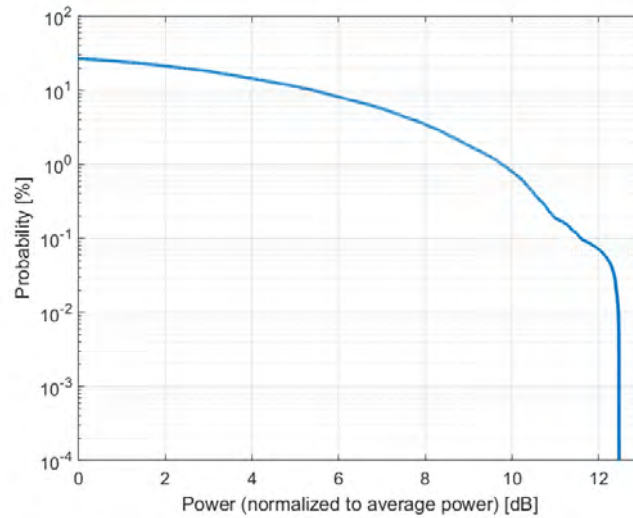
Time Domain

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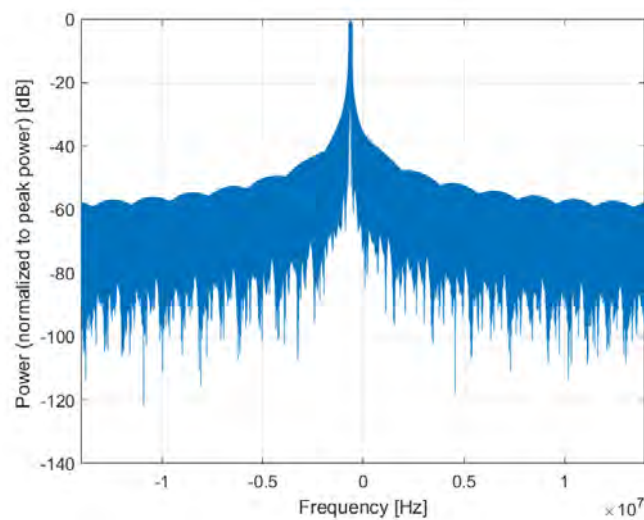
Name:	5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 15 kHz)
Group:	5G NR FR1 TDD
UID:	10972-AAC
PAR: ¹	11.59 dB
MIF: ²	-1.65 dB
Standard Reference:	SPEAG
Category:	Random amplitude modulation
Modulation:	QPSK
Frequency Band:	Band n38 (2570 - 2620 MHz) Band n39 (1880 - 1920 MHz) Band n40 (2300 - 2400 MHz) Band n41 (2496 - 2690 MHz) Band n48 (3550 - 3700 MHz) Band n50 (1432 - 1517 MHz) Band n77 (3300 - 4200 MHz) Band n78 (3300 - 3800 MHz) Band n90 (2496 - 2690 MHz) Band n47 (5855 - 5925 MHz) Band n46 (5150 - 5925 MHz) Band n96 (5925 - 7125 MHz) Band n102 (5925 - 6425 MHz) Band n104 (6425 - 7125 MHz) Validation band (0.0 - 6000.0 MHz)
Detailed Specification:	Multiplexing Scheme: CP-OFDM Modulation Scheme: QPSK Subcarrier Spacing: 15 kHz Number RBs: 1 Slot Format Index: - Data Type: PN9
Bandwidth:	20.0 MHz
Integration Time:	10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

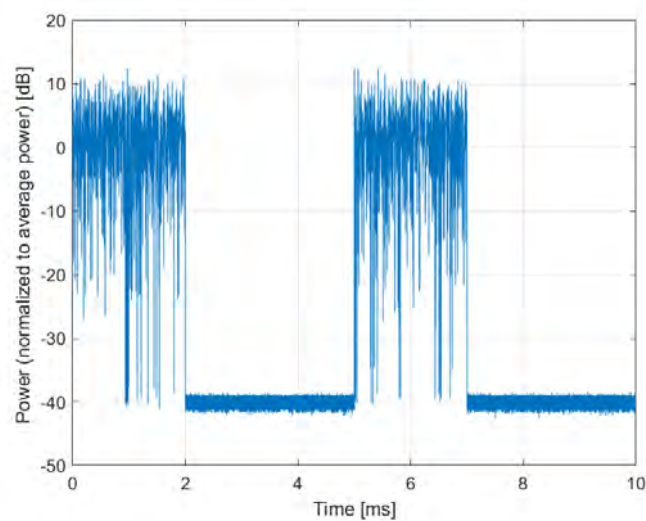
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



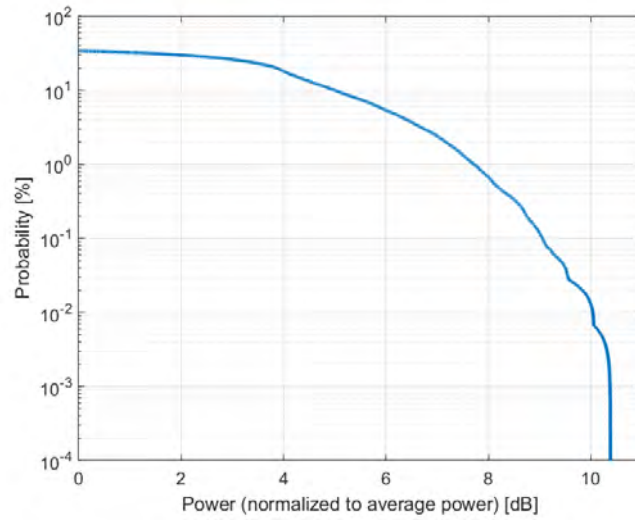
Time Domain

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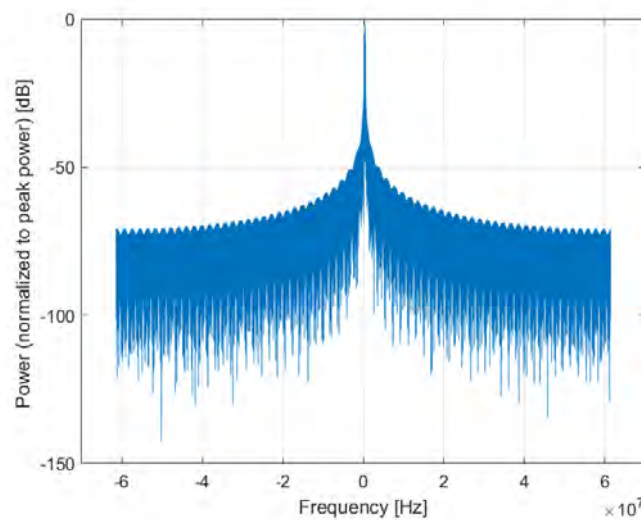
Name:	5G NR (DFT-s-OFDM, 1 RB, 100 MHz, QPSK, 30 kHz)
Group:	5G NR FR1 TDD
UID:	10973-AAD
PAR: ¹	9.06 dB
MIF: ²	-1.64 dB
Standard Reference:	SPEAG
Category:	Random amplitude modulation
Modulation:	QPSK
Frequency Band:	Band n41 (2496 - 2690 MHz) Band n48 (3550 - 3700 MHz) Band n77 (3300 - 4200 MHz) Band n78 (3300 - 3800 MHz) Band n79 (4400 - 5000 MHz) Band n90 (2496 - 2690 MHz) Band n46 (5150 - 5925 MHz) Band n96 (5925 - 7125 MHz) Band n102 (5925 - 6425 MHz) Band n104 (6425 - 7125 MHz) Validation band (0.0 - 6000.0 MHz)
Detailed Specification:	Multiplexing Scheme: DFT-s-OFDM Modulation Scheme: QPSK Subcarrier Spacing: 30 kHz Number RBs: 1 Slot Format Index: - Data Type: PN9
Bandwidth:	100.0 MHz
Integration Time:	10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

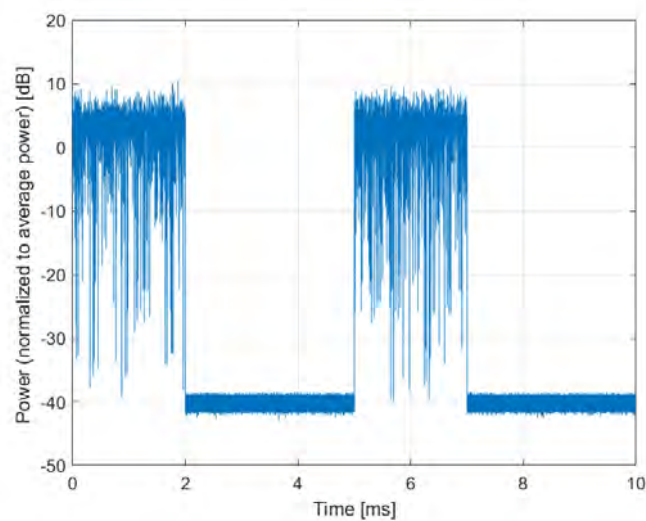
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **5G NR (CP-OFDM, 100% RB, 100 MHz, 256-QAM, 30 kHz)**

Group: 5G NR FR1 TDD
UID: 10974-AAD

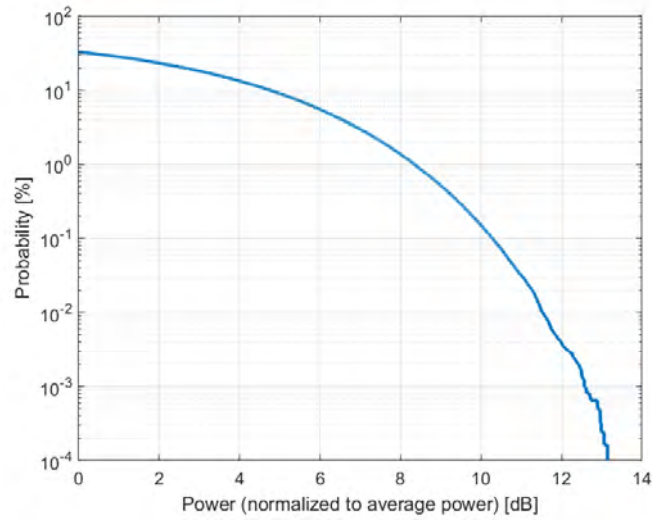
PAR: ¹ **10.28 dB**
MIF: ² **-3.48 dB**

Standard Reference: SPEAG
Category: Random amplitude modulation
Modulation: 256-QAM
Frequency Band: Band n41 (2496 - 2690 MHz)
Band n48 (3550 - 3700 MHz)
Band n77 (3300 - 4200 MHz)
Band n78 (3300 - 3800 MHz)
Band n79 (4400 - 5000 MHz)
Band n90 (2496 - 2690 MHz)
Band n46 (5150 - 5925 MHz)
Band n96 (5925 - 7125 MHz)
Band n102 (5925 - 6425 MHz)
Band n104 (6425 - 7125 MHz)
Validation band (0.0 - 6000.0 MHz)

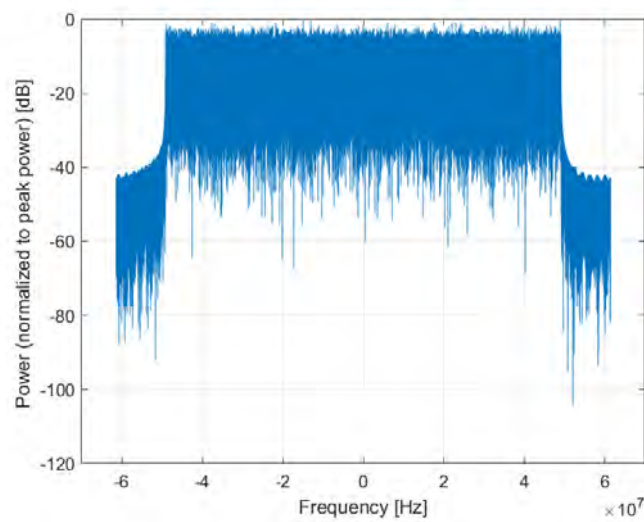
Detailed Specification: Multiplexing Scheme: CP-OFDM
Modulation Scheme: 256-QAM
Subcarrier Spacing: 30 kHz
Number RBs: 273
Slot Format Index: -
Data Type: PN9

Bandwidth: 100.0 MHz
Integration Time: 10.0 ms

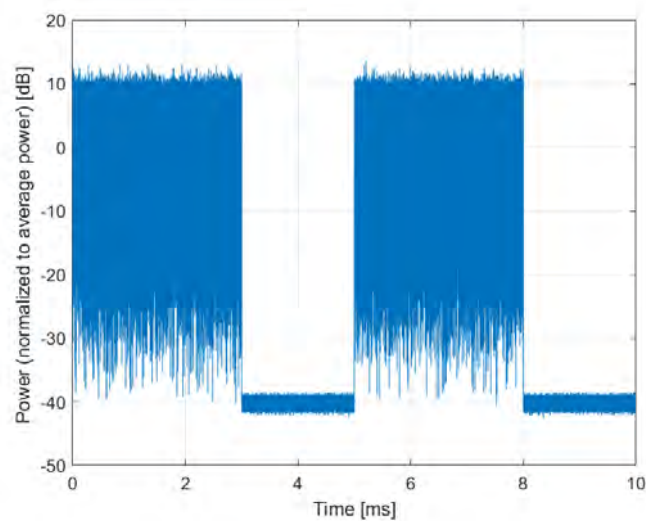
¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain

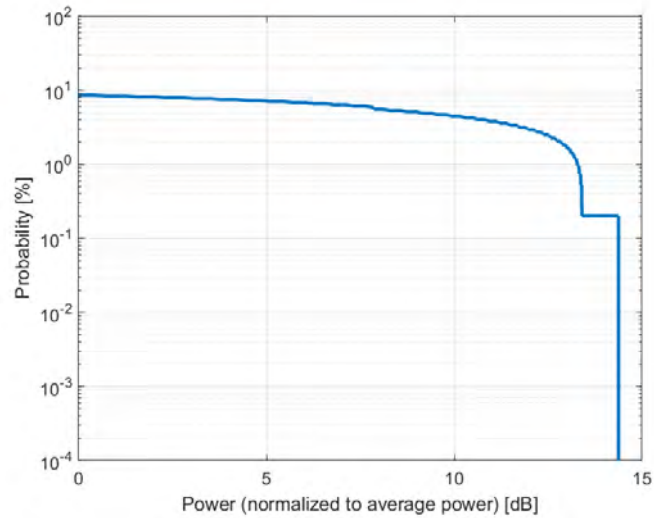


Time Domain

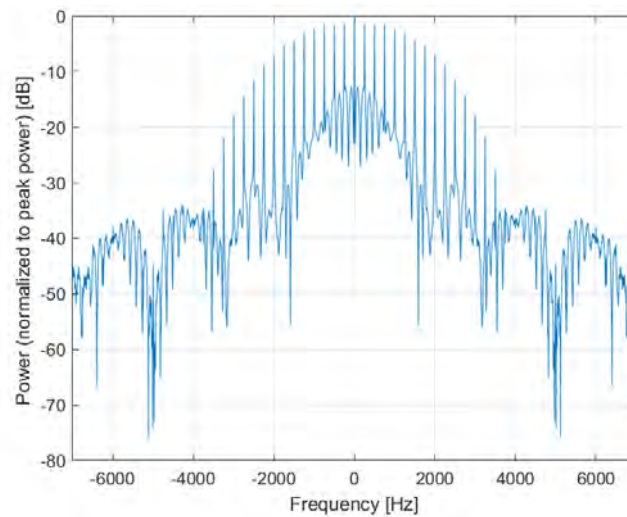
**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name:	MRI (RT Prot sat)
Group:	MRI
UID:	10975-AAA
PAR: ¹	14.37 dB
MIF: ²	6.97 dB
Standard Reference:	SPEAG
Category:	Periodic pulsed modulation
Modulation:	AM
Frequency Band:	MRI 1.5T (59.0 - 69.0 MHz) MRI 3T (123.0 - 133.0 MHz) Validation band (0.0 - 6000.0 MHz)
Detailed Specification:	Custom Calibration Sequence
Bandwidth:	0.0 MHz
Integration Time:	298.0 ms

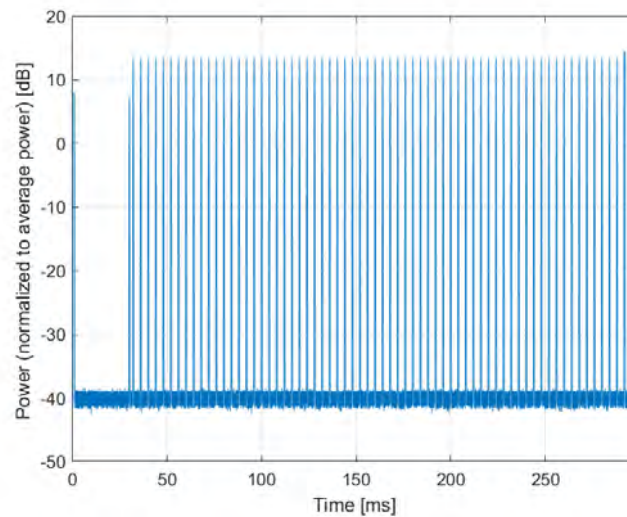
¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain

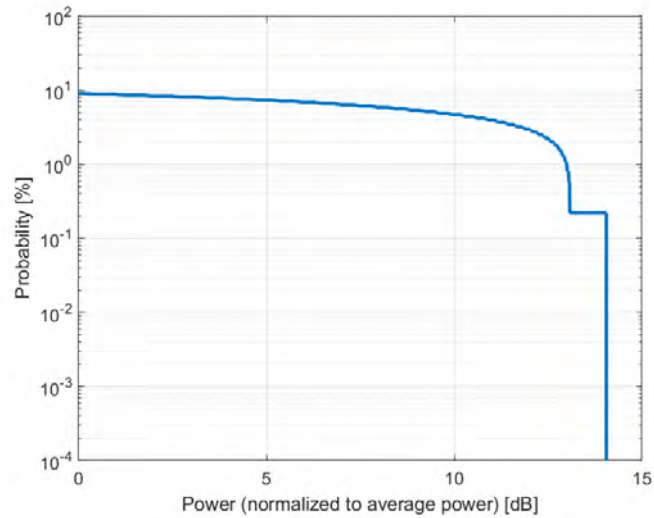


Time Domain

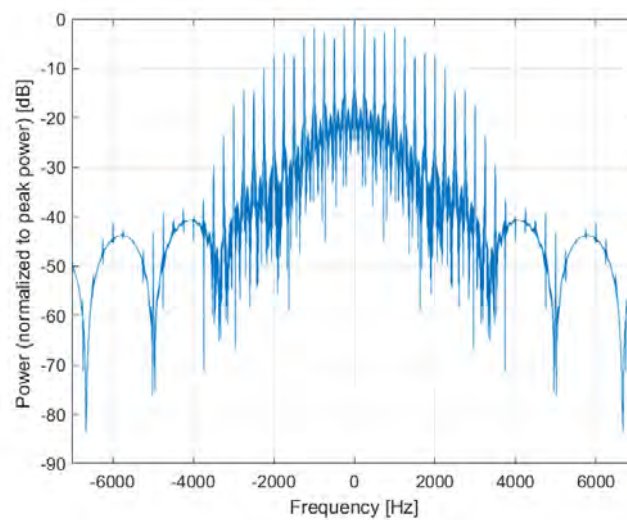
**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name:	MRI (RT Prot no sat)
Group:	MRI
UID:	10976-AAA
PAR: ¹	14.05 dB
MIF: ²	6.74 dB
Standard Reference:	SPEAG
Category:	Periodic pulsed modulation
Modulation:	AM
Frequency Band:	MRI 1.5T (59.0 - 69.0 MHz) MRI 3T (123.0 - 133.0 MHz) Validation band (0.0 - 6000.0 MHz)
Detailed Specification:	Custom Calibration Sequence
Bandwidth:	0.0 MHz
Integration Time:	271.0 ms

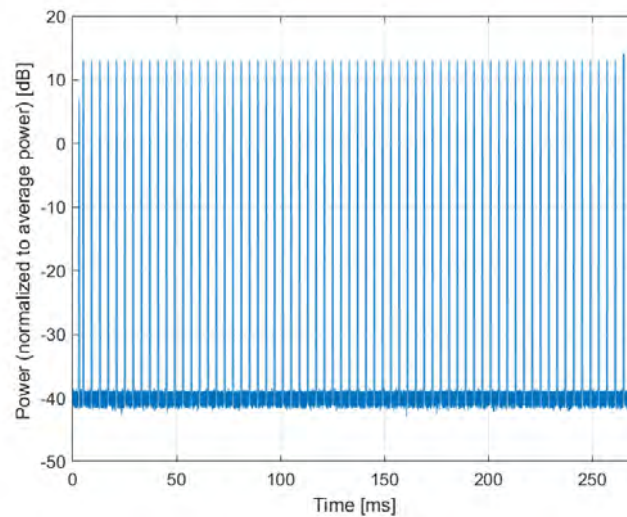
¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



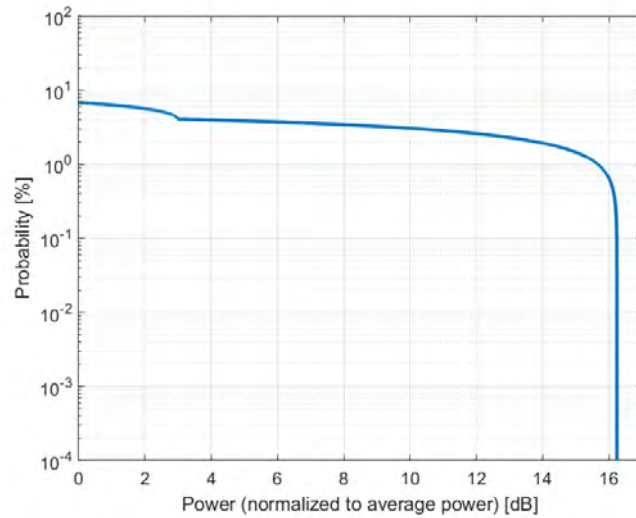
Time Domain

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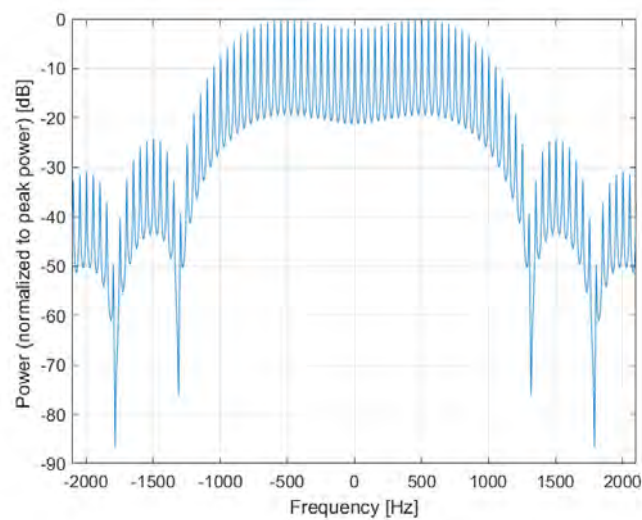
Name:	MRI (pi Sinc, 20ms, 2ms)
Group:	MRI
UID:	10977-AAA
PAR: ¹	16.24 dB
MIF: ²	8.47 dB
Standard Reference:	SPEAG
Category:	Random amplitude modulation
Modulation:	AM
Frequency Band:	MRI 1.5T (59.0 - 69.0 MHz) MRI 3T (123.0 - 133.0 MHz) Validation band (0.0 - 6000.0 MHz)
Detailed Specification:	Pulse Shape: Sinc +/- 2 Pi Repetition Rate: + 50 Hz Duty Cycle: 10%
Bandwidth:	0.0 MHz
Integration Time:	20.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

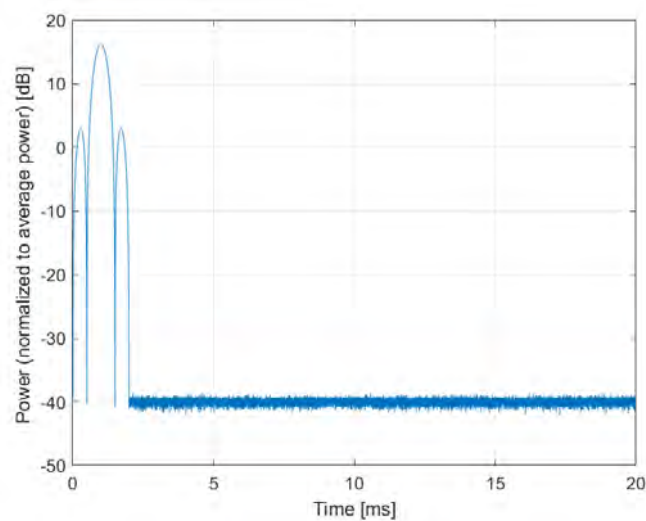
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

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Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **ULLA BDR**

Group: ULLA
UID: 10978-AAA

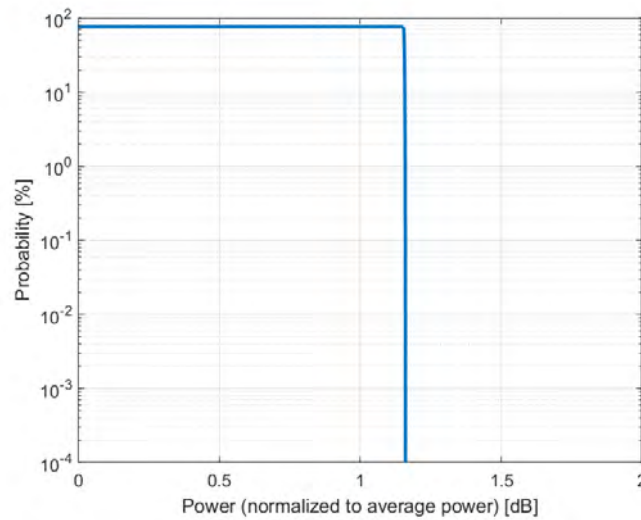
PAR: ¹ **1.16 dB**
MIF: ² **-3.98 dB**

Standard Reference: -
Category: Random Amplitude Modulation
Modulation: -
Frequency Band: Band 0 (2402 - 2480 MHz)
Band 1 (5150 - 5250 MHz)
Band 2 (5725 - 5850 MHz)
Band 3 (5850 - 5925 MHz)
Band 4 (5925 - 6050 MHz)
Band 5 (6051 - 6175 MHz)
Band 6 (6176 - 6300 MHz)
Band 7 (6301 - 6425 MHz)
Validation band (0.0 - 6000.0 MHz)

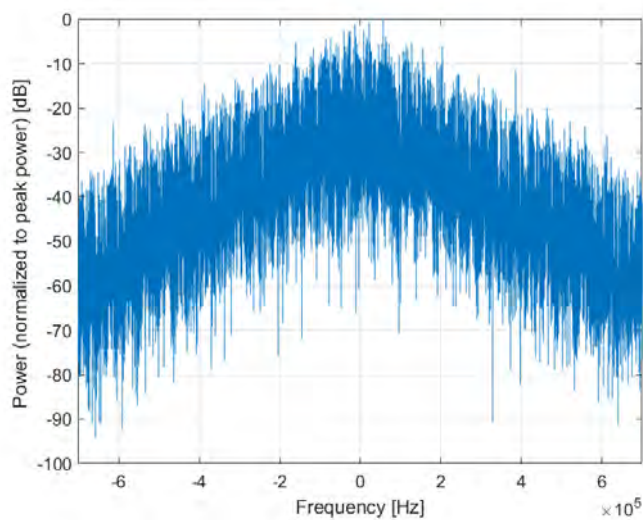
Detailed Specification: BDR

Bandwidth: 1.0 MHz
Integration Time: 3.8 ms

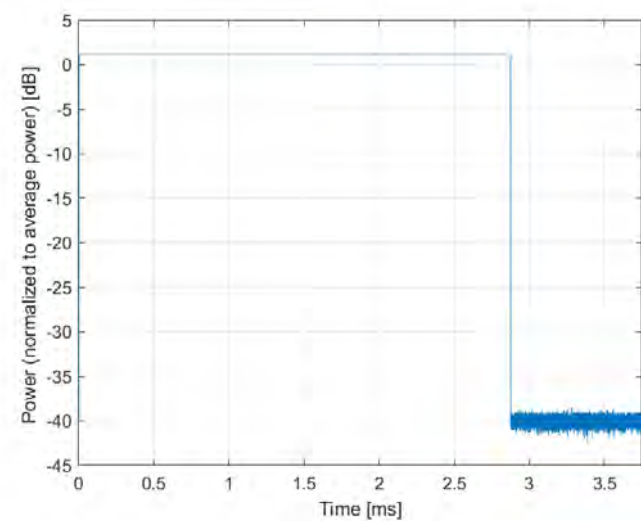
¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain

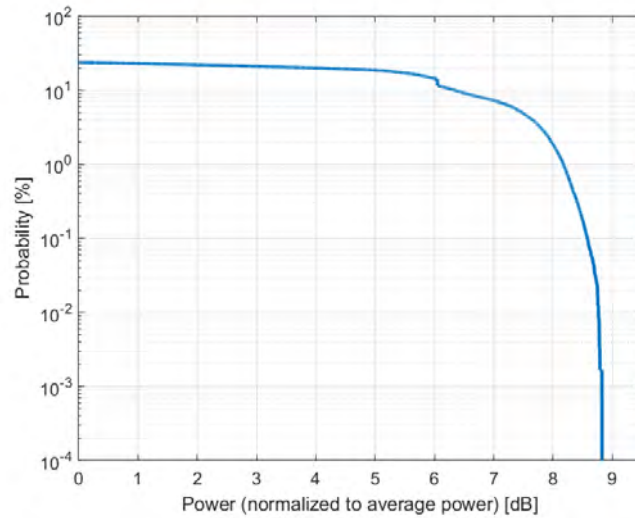


Time Domain

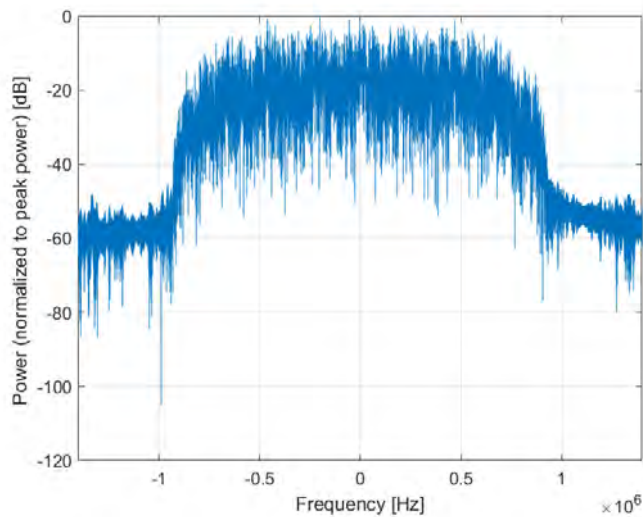
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Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name:	ULLA HDR4
Group:	ULLA
UID:	10979-AAA
PAR: ¹	8.58 dB
MIF: ²	0.89 dB
Standard Reference:	-
Category:	Random Amplitude Modulation
Modulation:	-
Frequency Band:	Band 0 (2402 - 2480 MHz) Band 1 (5150 - 5250 MHz) Band 2 (5725 - 5850 MHz) Band 3 (5850 - 5925 MHz) Band 4 (5925 - 6050 MHz) Band 5 (6051 - 6175 MHz) Band 6 (6176 - 6300 MHz) Band 7 (6301 - 6425 MHz) Validation band (0.0 - 6000.0 MHz)
Detailed Specification:	HDR4
Bandwidth:	2.0 MHz
Integration Time:	3.8 ms

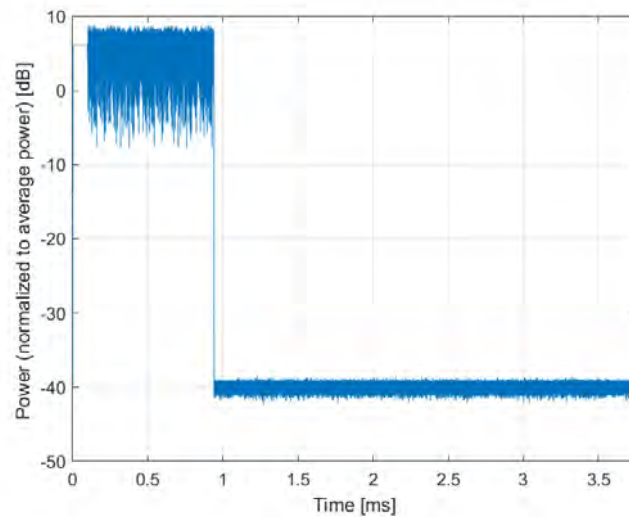
¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

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Zeughausstrasse 43, 8004 Zurich, Switzerland

Name: **ULLA HDR8**

Group: ULLA
UID: 10980-AAA

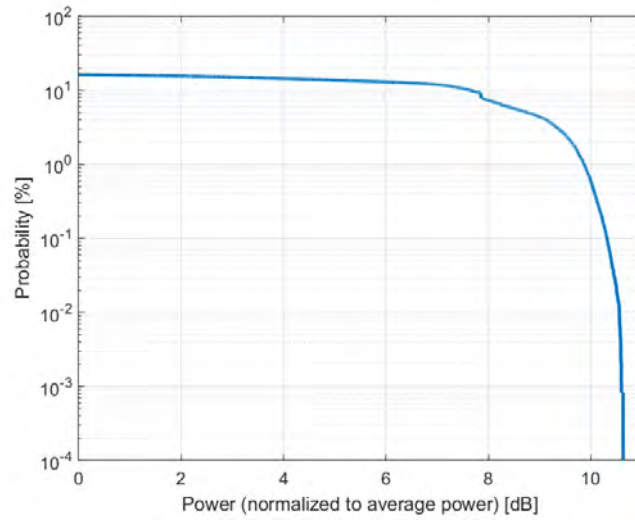
PAR: ¹ **10.32 dB**
MIF: ² **2.43 dB**

Standard Reference: -
Category: Random Amplitude Modulation
Modulation: -
Frequency Band: Band 0 (2402 - 2480 MHz)
Band 1 (5150 - 5250 MHz)
Band 2 (5725 - 5850 MHz)
Band 3 (5850 - 5925 MHz)
Band 4 (5925 - 6050 MHz)
Band 5 (6051 - 6175 MHz)
Band 6 (6176 - 6300 MHz)
Band 7 (6301 - 6425 MHz)
Validation band (0.0 - 6000.0 MHz)

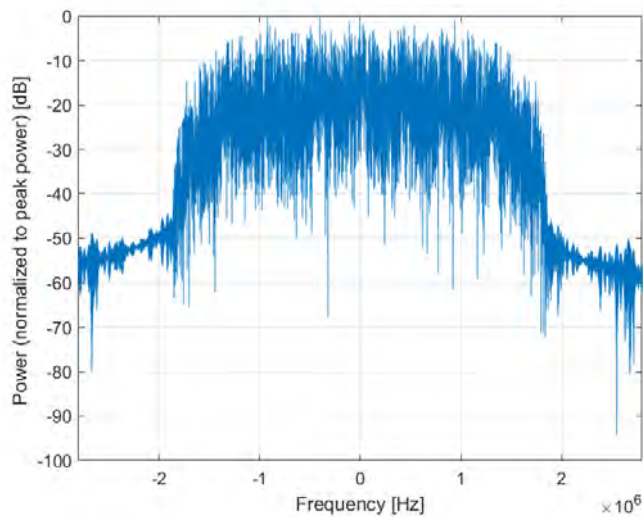
Detailed Specification: HDR8

Bandwidth: 4.0 MHz
Integration Time: 3.8 ms

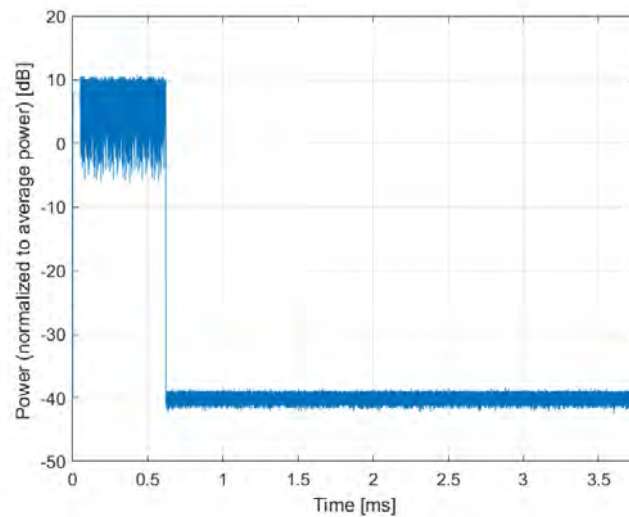
¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

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Name: **ULLA HDRp4**

Group: ULLA
UID: 10981-AAA

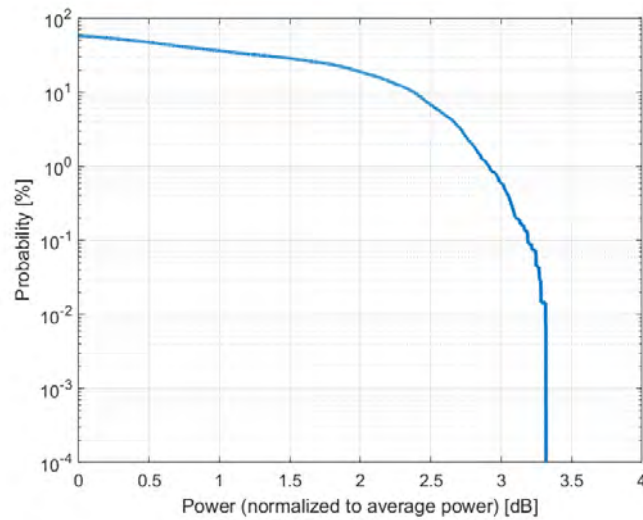
PAR: ¹ **3.19 dB**
MIF: ² **-5.68 dB**

Standard Reference: -
Category: Random Amplitude Modulation
Modulation: -
Frequency Band: Band 0 (2402 - 2480 MHz)
Band 1 (5150 - 5250 MHz)
Band 2 (5725 - 5850 MHz)
Band 3 (5850 - 5925 MHz)
Band 4 (5925 - 6050 MHz)
Band 5 (6051 - 6175 MHz)
Band 6 (6176 - 6300 MHz)
Band 7 (6301 - 6425 MHz)
Validation band (0.0 - 6000.0 MHz)

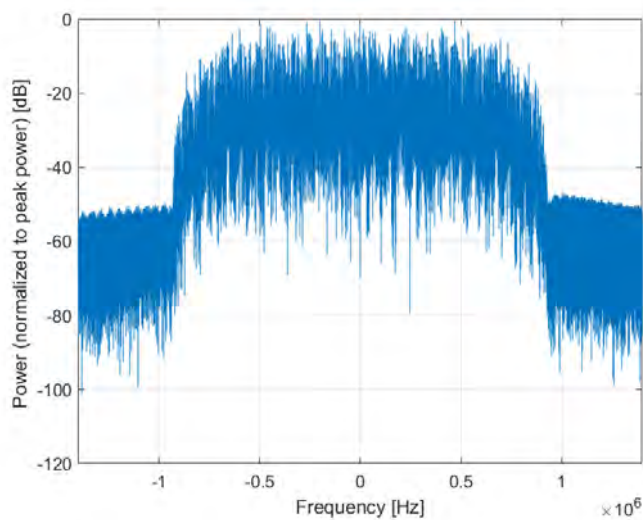
Detailed Specification: HDRp4

Bandwidth: 2.0 MHz
Integration Time: 12.5 ms

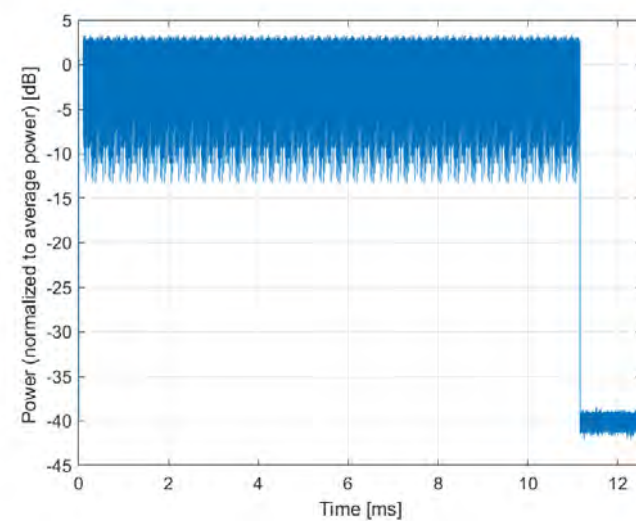
¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

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Name: **ULLA HDRp8**

Group: ULLA
UID: 10982-AAA

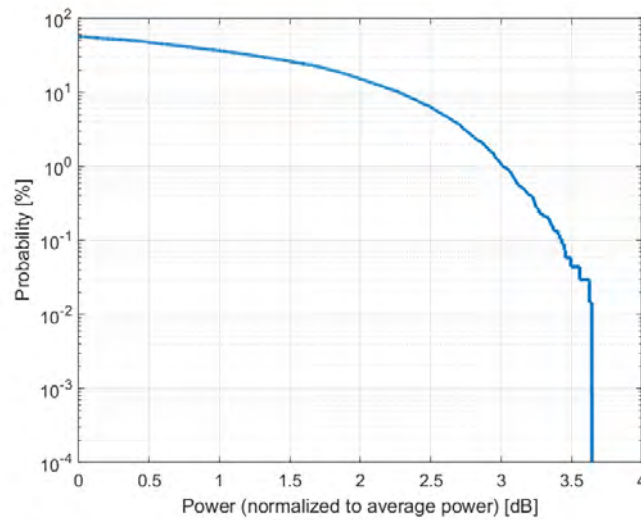
PAR: ¹ **3.43 dB**
MIF: ² **-5.57 dB**

Standard Reference: -
Category: Random Amplitude Modulation
Modulation: -
Frequency Band: Band 0 (2402 - 2480 MHz)
Band 1 (5150 - 5250 MHz)
Band 2 (5725 - 5850 MHz)
Band 3 (5850 - 5925 MHz)
Band 4 (5925 - 6050 MHz)
Band 5 (6051 - 6175 MHz)
Band 6 (6176 - 6300 MHz)
Band 7 (6301 - 6425 MHz)
Validation band (0.0 - 6000.0 MHz)

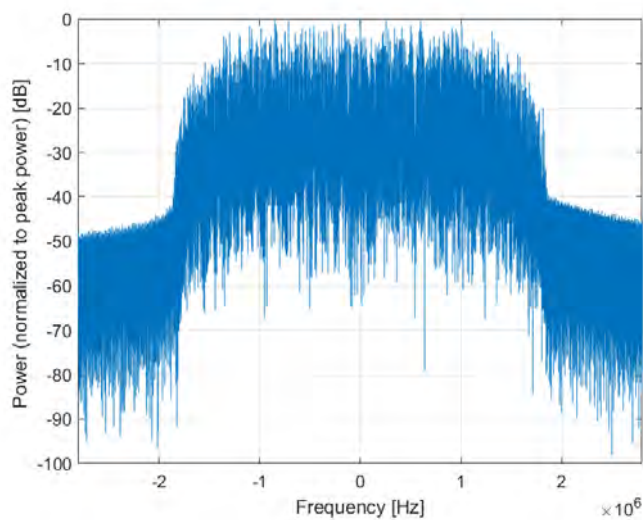
Detailed Specification: HDRp8

Bandwidth: 4.0 MHz
Integration Time: 6.2 ms

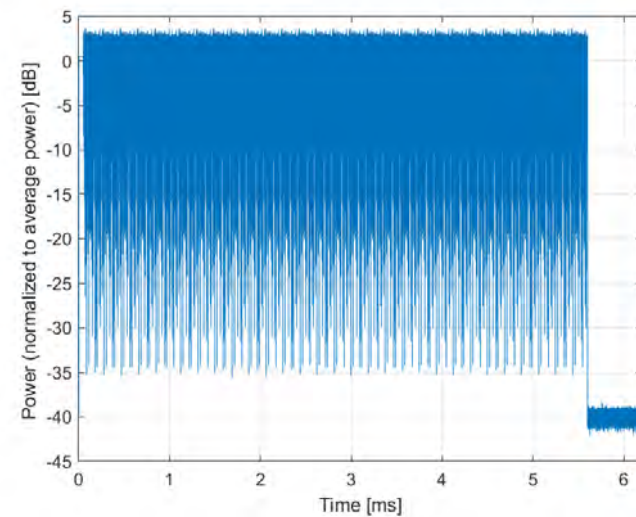
¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain

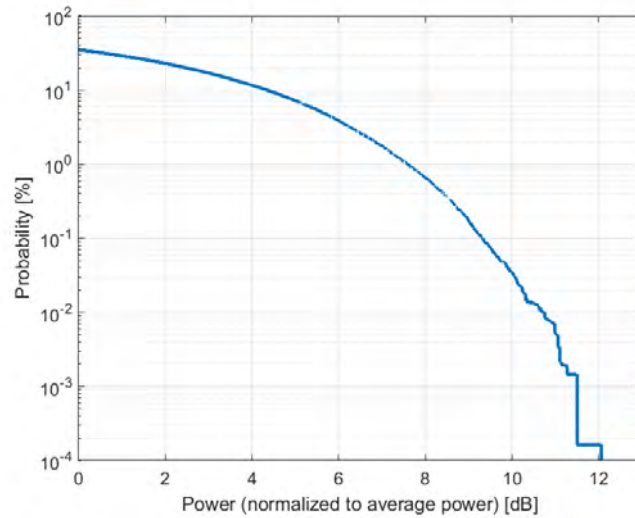


Time Domain

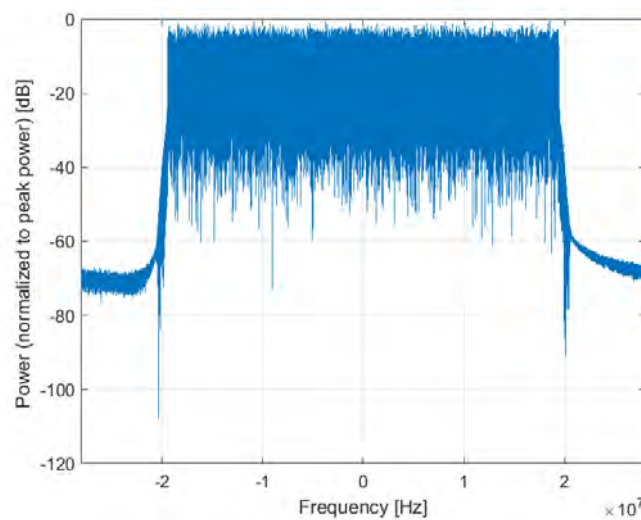
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Zeughausstrasse 43, 8004 Zurich, Switzerland

Name:	5G NR DL (CP-OFDM, TM 3.1, 40 MHz, 64-QAM, 15 kHz)
Group:	5G NR FR1 TDD
UID:	10983-AAC
PAR: ¹	9.31 dB
MIF: ²	-4.23 dB
Standard Reference:	SPEAG
Category:	Random amplitude modulation
Modulation:	64-QAM
Frequency Band:	Band n38 (2570 - 2620 MHz) Band n39 (1880 - 1920 MHz) Band n40 (2300 - 2400 MHz) Band n41 (2496 - 2690 MHz) Band n48 (3550 - 3700 MHz) Band n50 (1432 - 1517 MHz) Band n77 (3300 - 4200 MHz) Band n78 (3300 - 3800 MHz) Band n79 (4400 - 5000 MHz) Band n90 (2496 - 2690 MHz) Band n47 (5855 - 5925 MHz) Band n46 (5150 - 5925 MHz) Band n96 (5925 - 7125 MHz) Band n102 (5925 - 6425 MHz) Band n104 (6425 - 7125 MHz) Validation band (0.0 - 6000.0 MHz)
Detailed Specification:	Multiplexing Scheme: CP-OFDM Modulation Scheme: 64-QAM Subcarrier Spacing: 15 kHz Model: TM 3.1 Data Type: PN9
Bandwidth:	40.0 MHz
Integration Time:	10.0 ms

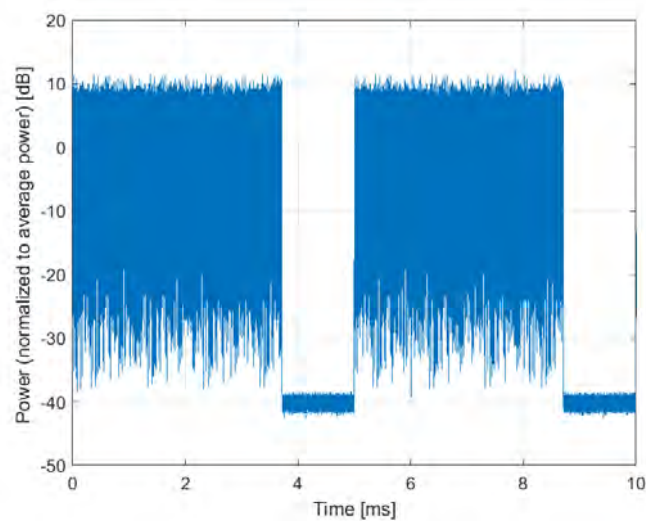
¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



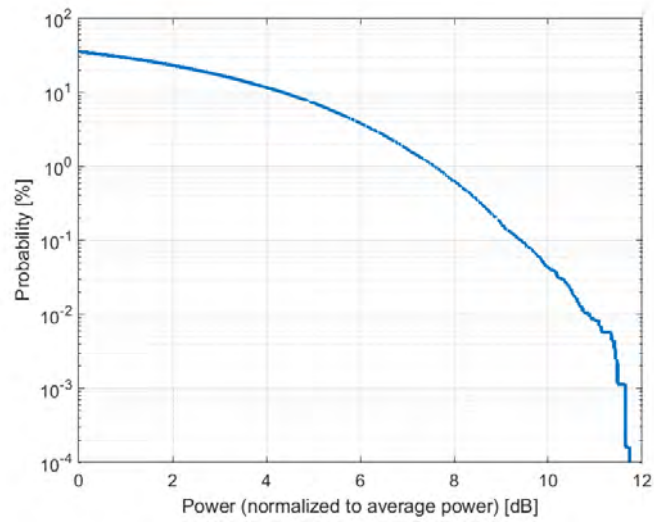
Time Domain

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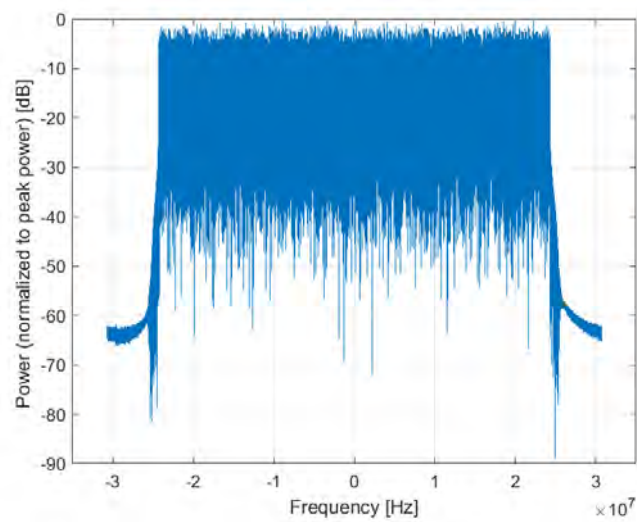
Name:	5G NR DL (CP-OFDM, TM 3.1, 50 MHz, 64-QAM, 15 kHz)
Group:	5G NR FR1 TDD
UID:	10984-AAB
PAR: ¹	9.42 dB
MIF: ²	-4.23 dB
Standard Reference:	SPEAG
Category:	Random amplitude modulation
Modulation:	64-QAM
Frequency Band:	Band n40 (2300 - 2400 MHz) Band n41 (2496 - 2690 MHz) Band n48 (3550 - 3700 MHz) Band n50 (1432 - 1517 MHz) Band n77 (3300 - 4200 MHz) Band n78 (3300 - 3800 MHz) Band n79 (4400 - 5000 MHz) Band n90 (2496 - 2690 MHz) Band n104 (6425 - 7125 MHz) Validation band (0.0 - 6000.0 MHz)
Detailed Specification:	Multiplexing Scheme: CP-OFDM Modulation Scheme: 64-QAM Subcarrier Spacing: 15 kHz Model: TM 3.1 Data Type: PN9
Bandwidth:	50.0 MHz
Integration Time:	10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

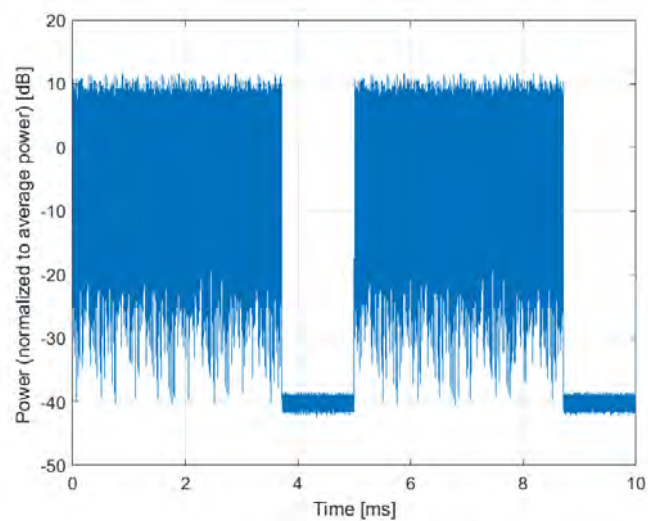
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain

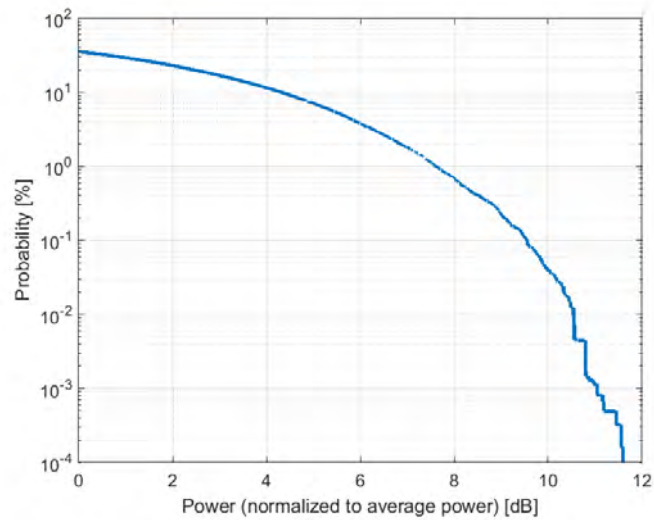


Time Domain

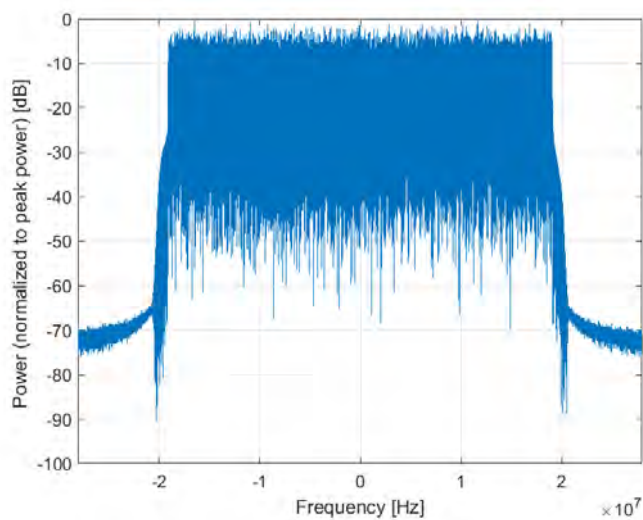
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Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name:	5G NR DL (CP-OFDM, TM 3.1, 40 MHz, 64-QAM, 30 kHz)
Group:	5G NR FR1 TDD
UID:	10985-AAC
PAR: ¹	9.54 dB
MIF: ²	-4.23 dB
Standard Reference:	SPEAG
Category:	Random amplitude modulation
Modulation:	64-QAM
Frequency Band:	Band n38 (2570 - 2620 MHz) Band n39 (1880 - 1920 MHz) Band n40 (2300 - 2400 MHz) Band n41 (2496 - 2690 MHz) Band n48 (3550 - 3700 MHz) Band n50 (1432 - 1517 MHz) Band n77 (3300 - 4200 MHz) Band n78 (3300 - 3800 MHz) Band n79 (4400 - 5000 MHz) Band n90 (2496 - 2690 MHz) Band n47 (5855 - 5925 MHz) Band n46 (5150 - 5925 MHz) Band n96 (5925 - 7125 MHz) Band n102 (5925 - 6425 MHz) Band n104 (6425 - 7125 MHz) Validation band (0.0 - 6000.0 MHz)
Detailed Specification:	Multiplexing Scheme: CP-OFDM Modulation Scheme: 64-QAM Subcarrier Spacing: 30 kHz Model: TM 3.1 Data Type: PN9
Bandwidth:	40.0 MHz
Integration Time:	10.0 ms

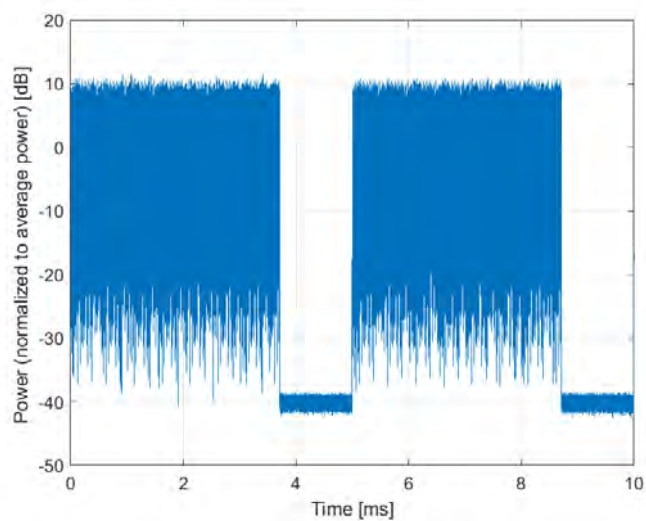
¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



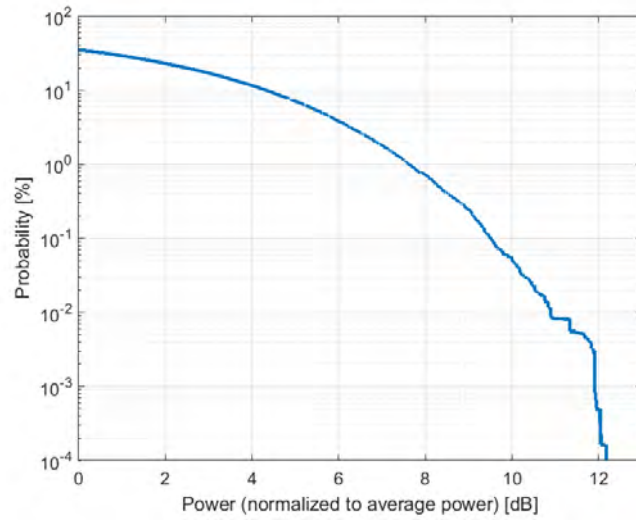
Time Domain

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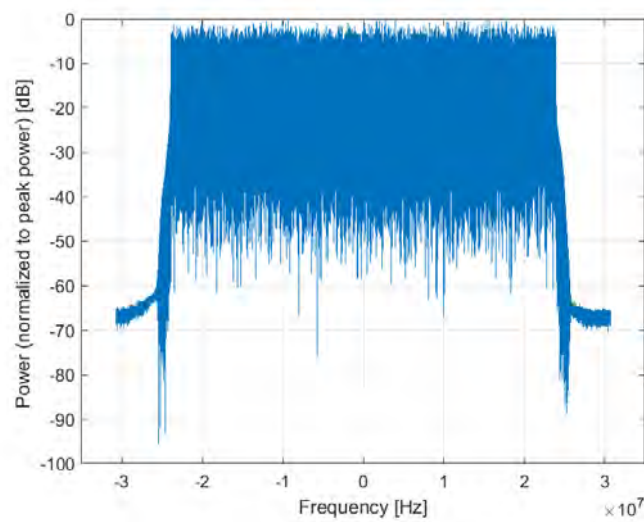
Name:	5G NR DL (CP-OFDM, TM 3.1, 50 MHz, 64-QAM, 30 kHz)
Group:	5G NR FR1 TDD
UID:	10986-AAB
PAR: ¹	9.50 dB
MIF: ²	-4.23 dB
Standard Reference:	SPEAG
Category:	Random amplitude modulation
Modulation:	64-QAM
Frequency Band:	Band n40 (2300 - 2400 MHz) Band n41 (2496 - 2690 MHz) Band n48 (3550 - 3700 MHz) Band n50 (1432 - 1517 MHz) Band n77 (3300 - 4200 MHz) Band n78 (3300 - 3800 MHz) Band n79 (4400 - 5000 MHz) Band n90 (2496 - 2690 MHz) Band n104 (6425 - 7125 MHz) Validation band (0.0 - 6000.0 MHz)
Detailed Specification:	Multiplexing Scheme: CP-OFDM Modulation Scheme: 64-QAM Subcarrier Spacing: 30 kHz Model: TM 3.1 Data Type: PN9
Bandwidth:	50.0 MHz
Integration Time:	10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

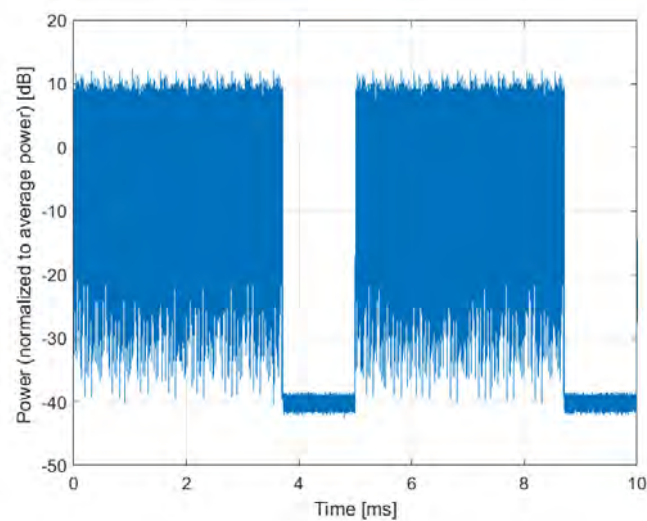
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain

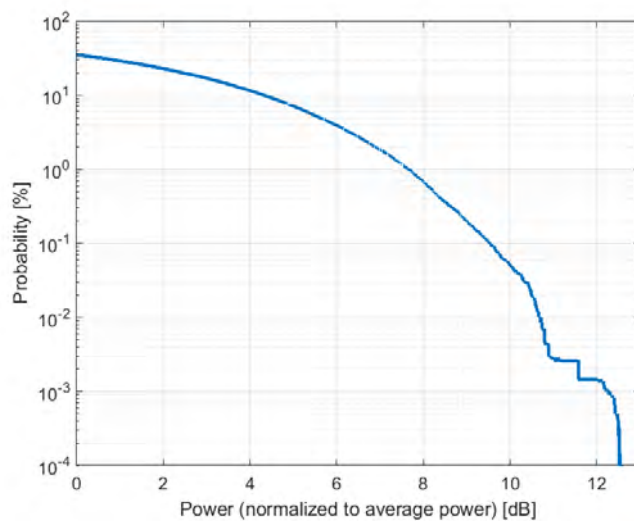


Time Domain

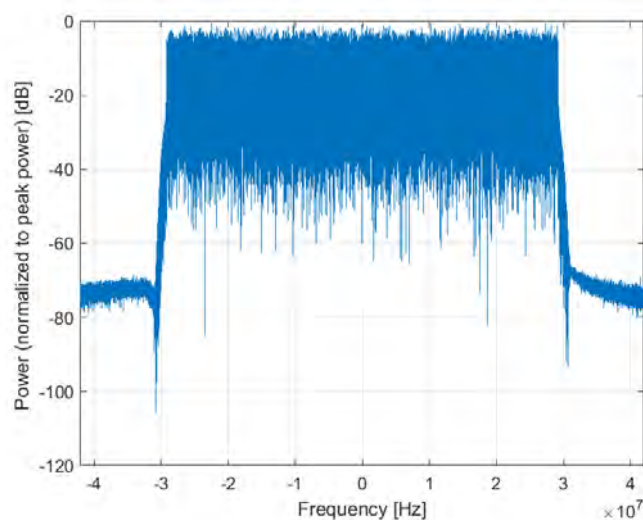
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Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name:	5G NR DL (CP-OFDM, TM 3.1, 60 MHz, 64-QAM, 30 kHz)
Group:	5G NR FR1 TDD
UID:	10987-AAC
PAR: ¹	9.53 dB
MIF: ²	-4.23 dB
Standard Reference:	SPEAG
Category:	Random amplitude modulation
Modulation:	64-QAM
Frequency Band:	Band n40 (2300 - 2400 MHz) Band n41 (2496 - 2690 MHz) Band n48 (3550 - 3700 MHz) Band n50 (1432 - 1517 MHz) Band n77 (3300 - 4200 MHz) Band n78 (3300 - 3800 MHz) Band n79 (4400 - 5000 MHz) Band n90 (2496 - 2690 MHz) Band n46 (5150 - 5925 MHz) Band n96 (5925 - 7125 MHz) Band n102 (5925 - 6425 MHz) Band n104 (6425 - 7125 MHz) Validation band (0.0 - 6000.0 MHz)
Detailed Specification:	Multiplexing Scheme: CP-OFDM Modulation Scheme: 64-QAM Subcarrier Spacing: 30 kHz Model: TM 3.1 Data Type: PN9
Bandwidth:	60.0 MHz
Integration Time:	10.0 ms

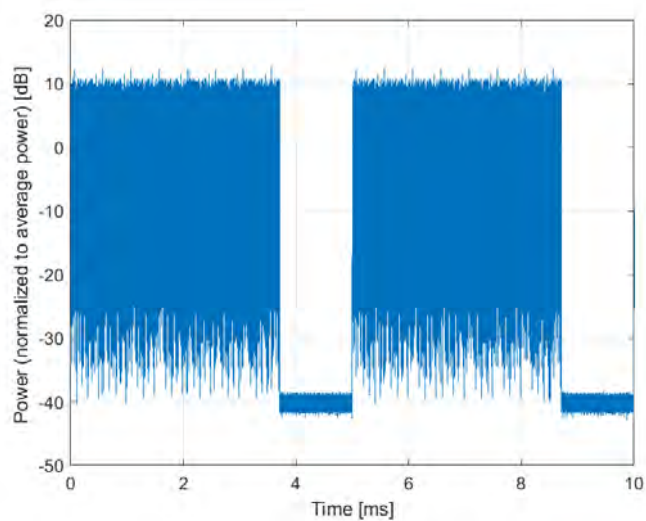
¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain

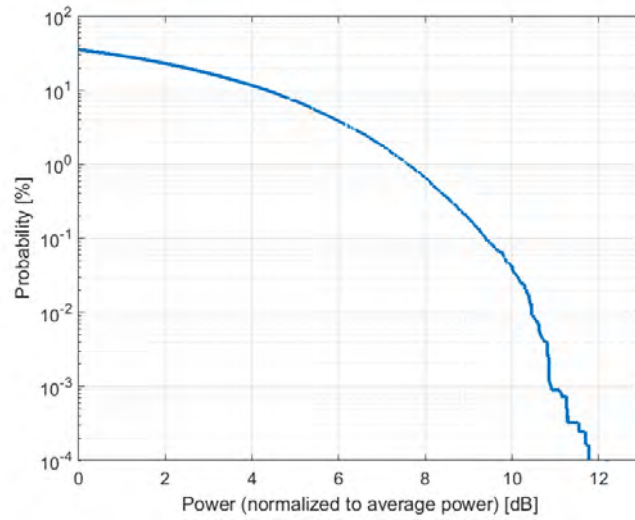


Time Domain

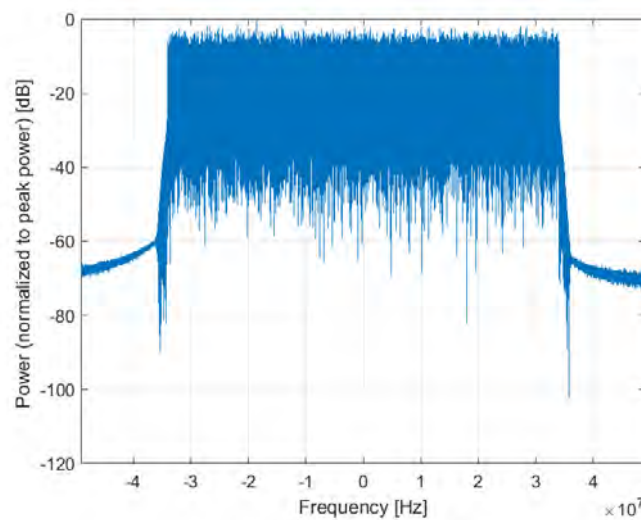
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Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland

Name:	5G NR DL (CP-OFDM, TM 3.1, 70 MHz, 64-QAM, 30 kHz)
Group:	5G NR FR1 TDD
UID:	10988-AAB
PAR: ¹	9.38 dB
MIF: ²	-4.23 dB
Standard Reference:	SPEAG
Category:	Random amplitude modulation
Modulation:	64-QAM
Frequency Band:	Band n40 (2300 - 2400 MHz) Band n41 (2496 - 2690 MHz) Band n48 (3550 - 3700 MHz) Band n50 (1432 - 1517 MHz) Band n77 (3300 - 4200 MHz) Band n78 (3300 - 3800 MHz) Band n79 (4400 - 5000 MHz) Band n90 (2496 - 2690 MHz) Band n104 (6425 - 7125 MHz) Validation band (0.0 - 6000.0 MHz)
Detailed Specification:	Multiplexing Scheme: CP-OFDM Modulation Scheme: 64-QAM Subcarrier Spacing: 30 kHz Model: TM 3.1 Data Type: PN9
Bandwidth:	70.0 MHz
Integration Time:	10.0 ms

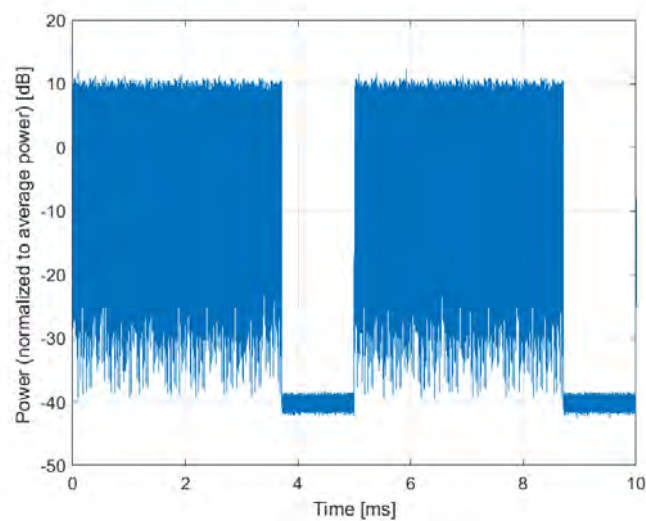
¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



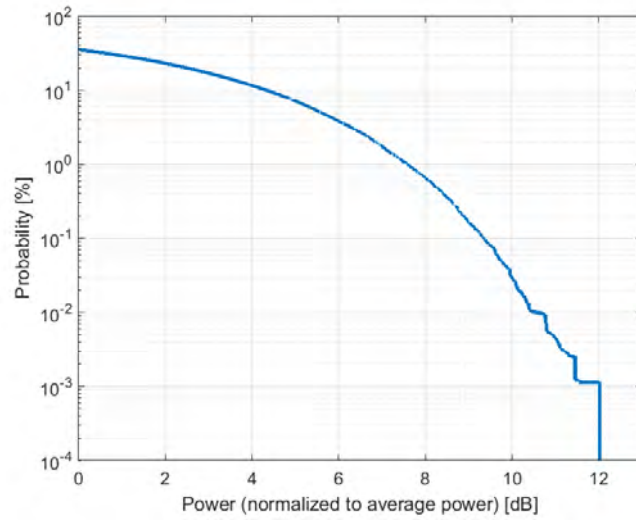
Time Domain

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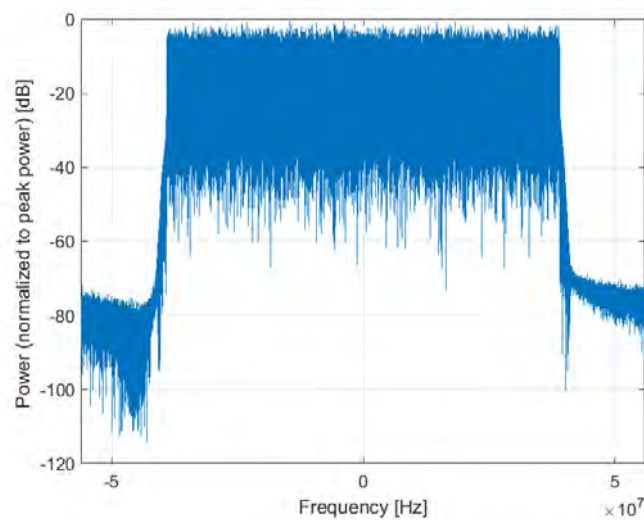
Name:	5G NR DL (CP-OFDM, TM 3.1, 80 MHz, 64-QAM, 30 kHz)
Group:	5G NR FR1 TDD
UID:	10989-AAC
PAR: ¹	9.33 dB
MIF: ²	-4.23 dB
Standard Reference:	SPEAG
Category:	Random amplitude modulation
Modulation:	64-QAM
Frequency Band:	Band n40 (2300 - 2400 MHz) Band n41 (2496 - 2690 MHz) Band n48 (3550 - 3700 MHz) Band n50 (1432 - 1517 MHz) Band n77 (3300 - 4200 MHz) Band n78 (3300 - 3800 MHz) Band n79 (4400 - 5000 MHz) Band n90 (2496 - 2690 MHz) Band n46 (5150 - 5925 MHz) Band n96 (5925 - 7125 MHz) Band n102 (5925 - 6425 MHz) Band n104 (6425 - 7125 MHz) Validation band (0.0 - 6000.0 MHz)
Detailed Specification:	Multiplexing Scheme: CP-OFDM Modulation Scheme: 64-QAM Subcarrier Spacing: 30 kHz Model: TM 3.1 Data Type: PN9
Bandwidth:	80.0 MHz
Integration Time:	10.0 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

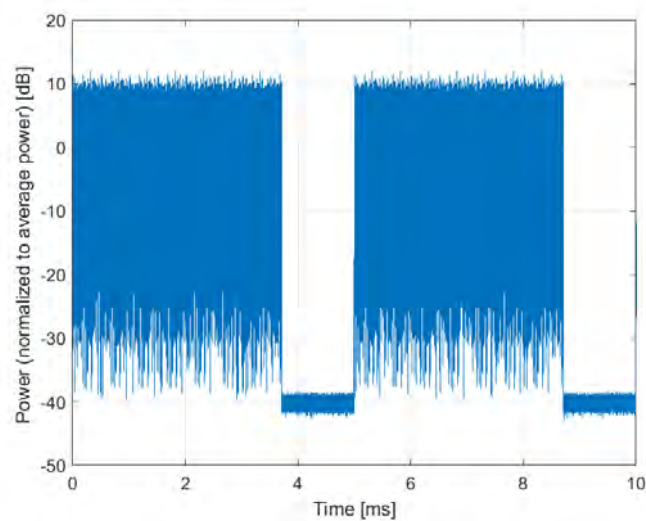
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain

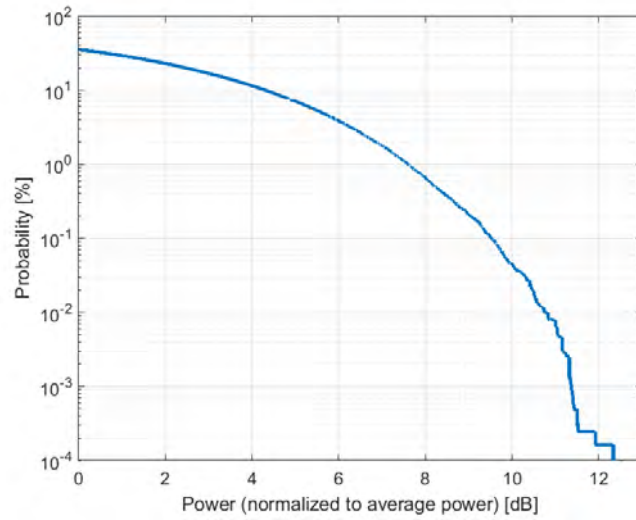


Time Domain

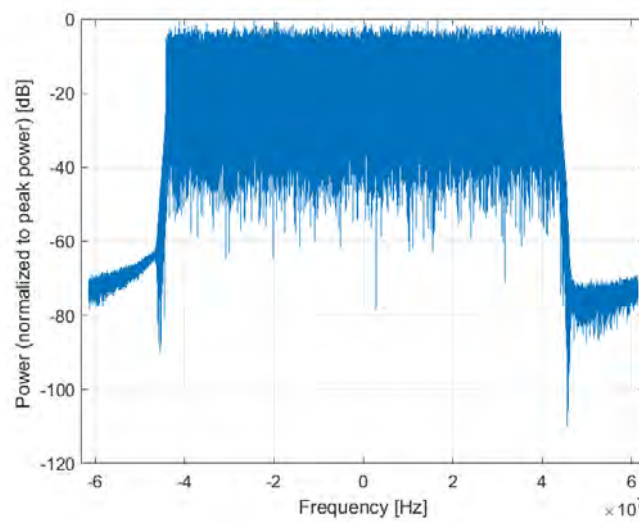
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Name:	5G NR DL (CP-OFDM, TM 3.1, 90 MHz, 64-QAM, 30 kHz)
Group:	5G NR FR1 TDD
UID:	10990-AAB
PAR: ¹	9.52 dB
MIF: ²	-4.23 dB
Standard Reference:	SPEAG
Category:	Random amplitude modulation
Modulation:	64-QAM
Frequency Band:	Band n41 (2496 - 2690 MHz) Band n48 (3550 - 3700 MHz) Band n77 (3300 - 4200 MHz) Band n78 (3300 - 3800 MHz) Band n90 (2496 - 2690 MHz) Band n104 (6425 - 7125 MHz) Validation band (0.0 - 6000.0 MHz)
Detailed Specification:	Multiplexing Scheme: CP-OFDM Modulation Scheme: 64-QAM Subcarrier Spacing: 30 kHz Model: TM 3.1 Data Type: PN9
Bandwidth:	90.0 MHz
Integration Time:	10.0 ms

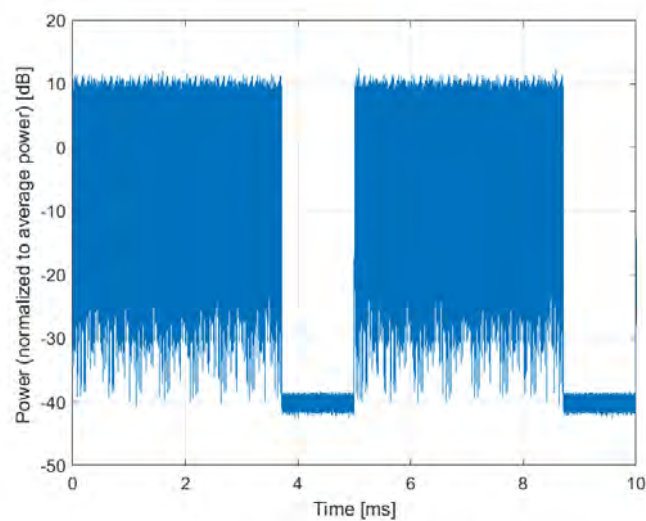
¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"
² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).



Complementary Cumulative Distribution Function (CCDF)



Frequency Domain



Time Domain

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Name:	MRI (2pi Sinc, 5.1ms, 1.5232ms)
Group:	MRI
UID:	10991-AAA
PAR: ¹	11.49 dB
MIF: ²	4.25 dB
Standard Reference:	SPEAG
Category:	Random amplitude modulation
Modulation:	AM
Frequency Band:	MRI 1.5T (59.0 - 69.0 MHz) MRI 3T (123.0 - 133.0 MHz) Validation band (0.0 - 6000.0 MHz)
Detailed Specification:	Pulse Shape: Sinc +/- 2 Pi Repetition Rate: + 196 Hz Duty Cycle: 29.9%
Bandwidth:	0.0 MHz
Integration Time:	5.1 ms

¹ PAR (0.1%) in accordance with FCC KDB 971168, Section 6.0 "Measurement of the Peak-to-Average Power Ratio (PAPR)"

² Modulation Interference Factor (MIF) value valid only in conjunction with advanced probe response linearization calibration for the same communication system (same UID and version).